```
{7,"<B>,""</B>,""<I>,""</I>,""<TABLE>"}

procedure pcwrapHLRT (page P)
    scan to the line 7 in P
    while the next occurrence of li in P occurs before the next occurrence of t
            scan in P to next occurrence of l_i; save position as start of item attribute
        scan in P to next occurrence of r_i, save position as end of item attribute
        scan in P to next occurrence of l_p; save position as start of price attribute
            scan in P to next occurrence of r_p; save position as end of price attribute
    return extracted . . . . ., (item,price),. . . . .} pairs
```

FIGURE 1
(PRIOR ART)

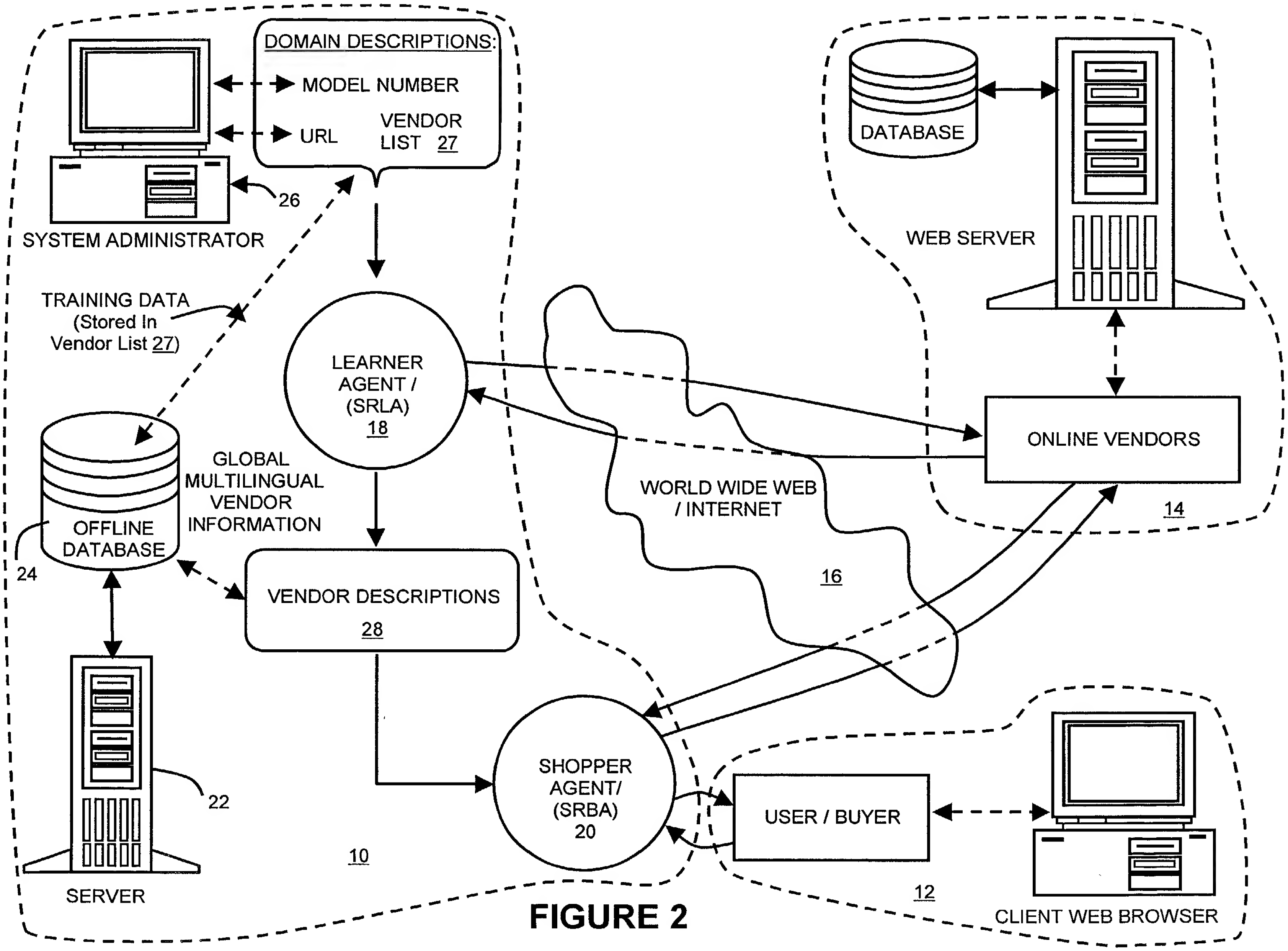

DOMAIN DESCRIPTIONS:
MODEL NUMBER
URL
VENDOR LIST 27
26
SYSTEM ADMINISTRATOR
TRAINING DATA (Stored In Vendor List 27)
LEARNER AGENT / (SRLA) 18
GLOBAL MULTILINGUAL VENDOR INFORMATION
OFFLINE DATABASE
24
VENDOR DESCRIPTIONS 28
22
SERVER
10
SHOPPER AGENT/ (SRBA) 20
DATABASE
WEB SERVER
ONLINE VENDORS
14
WORLD WIDE WEB / INTERNET
16
USER / BUYER
12
CLIENT WEB BROWSER

FIGURE 2

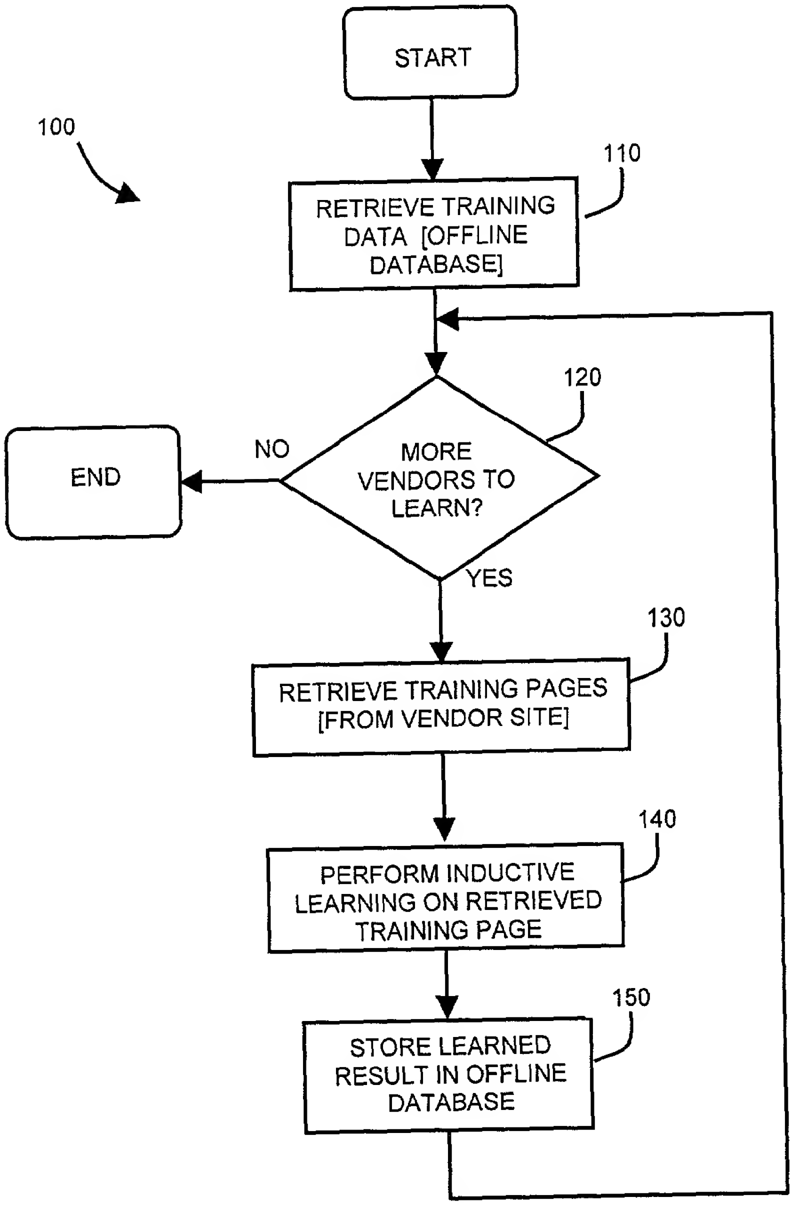

START
100
110
RETRIEVE TRAINING DATA [OFFLINE DATABASE]
120
END
NO
MORE VENDORS TO LEARN?
YES
130
RETRIEVE TRAINING PAGES [FROM VENDOR SITE]
140
PERFORM INDUCTIVE LEARNING ON RETRIEVED TRAINING PAGE
150
STORE LEARNED RESULT IN OFFLINE DATABASE

FIGURE 3

Element Name	Element Description
Vendor Name	Name of the online shop
Vendor URL	The URL of the online shop
Form URL	The URL to submit search data
Learning Domain	The domain used to learn the vendor description
Head	The end of header position of vendor's product pages. This element to learnt to reduce the product page searching space and thus shorten the product information extraction time
Tail	The start of footer position of vendor's product pages. Same as Head element, with this element the product information extraction time for Shopper Agent is shorten.
Left Delimiter of Item	The Shopper Agent uses this two delimiters to identify a product
Right Delimiter of Item	
Left Delimiter of Price	The Shopper Agent uses this two delimiters to locate a product's price information
Right Delimiter of Price	

FIGURE 4

EXAMPLE	
Element Name	Element Description
Vendor Name	800.com
Vendor URL	http://www.800.com
Form URL	http://www.800.com/search/srchrslts.asp?qs=1&slteentry=All&entry=
Learning Domain	Md
Head	1230
Tail	</BODY>
Left Delimiter of Item	/td width="12">
Right Delimiter of Item	</fon
Left Delimiter of Price	Your Price: $
Right Delimiter of Price	</b>

FIGURE 5

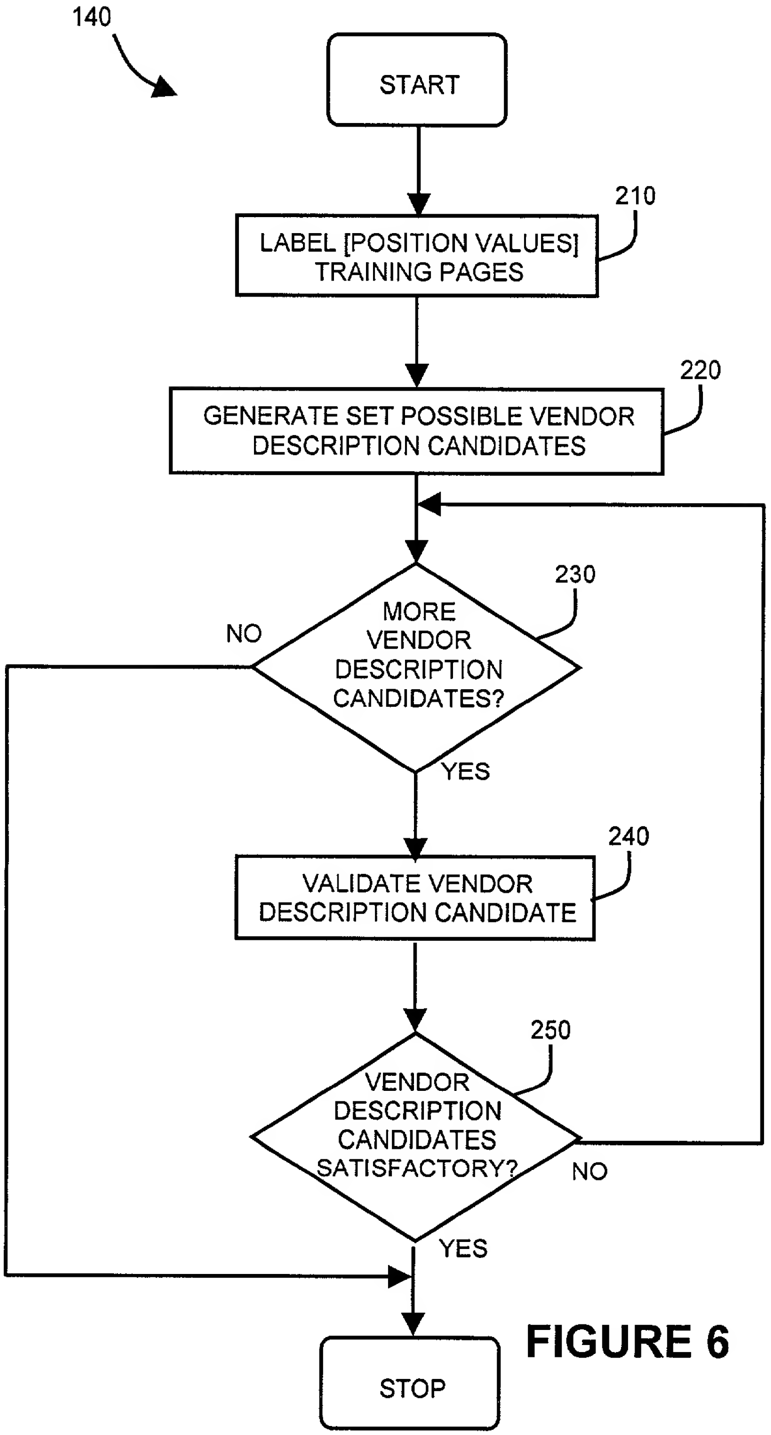
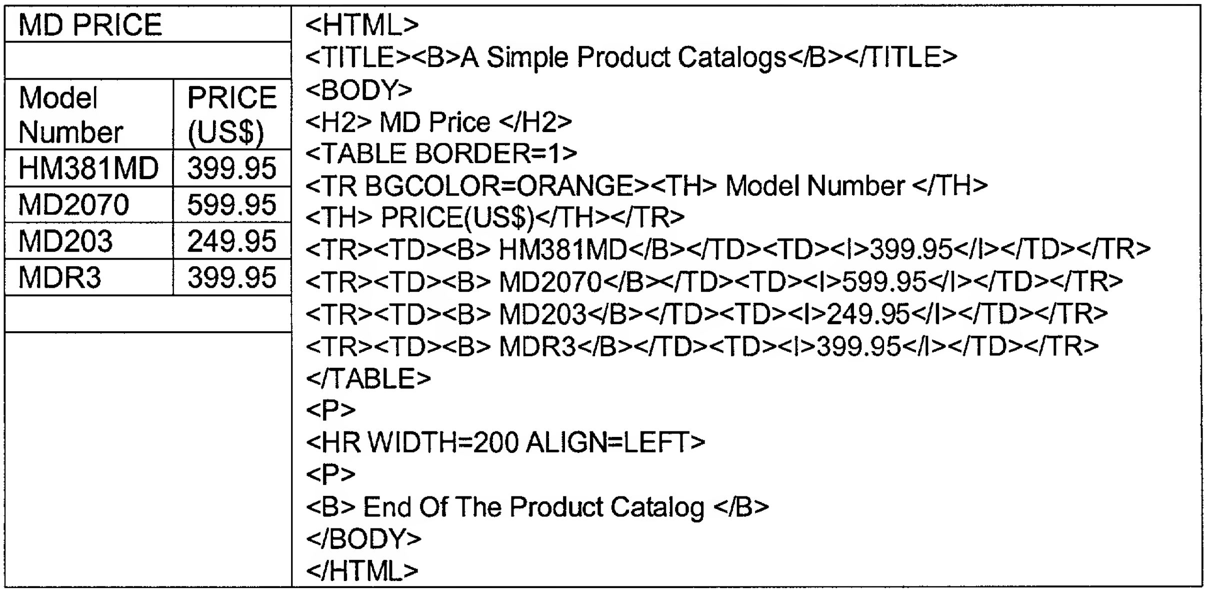

140
START
210
LABEL [POSITION VALUES] TRAINING PAGES
220
GENERATE SET POSSIBLE VENDOR DESCRIPTION CANDIDATES
230
MORE VENDOR DESCRIPTION CANDIDATES?
NO
YES
240
VALIDATE VENDOR DESCRIPTION CANDIDATE
250
VENDOR DESCRIPTION CANDIDATES SATISFACTORY?
NO
YES
STOP

FIGURE 6



MD PRICE

Model Number	PRICE (US$)
HM381MD	399.95
MD2070	599.95
MD203	249.95
MDR3	399.95

```
<HTML>
<TITLE><B>A Simple Product Catalogs</B></TITLE>
<BODY>
<H2> MD Price </H2>
<TABLE BORDER=1>
<TR BGCOLOR=ORANGE><TH> Model Number </TH>
<TH> PRICE(US$)</TH></TR>
<TR><TD><B> HM381MD</B></TD><TD><I>399.95</I></TD></TR>
<TR><TD><B> MD2070</B></TD><TD><I>599.95</I></TD></TR>
<TR><TD><B> MD203</B></TD><TD><I>249.95</I></TD></TR>
<TR><TD><B> MDR3</B></TD><TD><I>399.95</I></TD></TR>
</TABLE>
<P>
<HR WIDTH=200 ALIGN=LEFT>
<P>
<B> End Of The Product Catalog </B>
</BODY>
</HTML>
```

FIGURE 7

Product Entry	Labels
{ HM381MD, 399.95}	{<<174, 180>, <197, 202>>}
{ MD2070, 599.95}	{<<229, 234>, <251, 256>>}
{ MD203, 249.95}	{<<283, 287>, <304, 309>>}
{ MDR3, 399.95}	{<<336, 339>, <356, 361>>}

FIGURE 8

Product Entry	Labels
{ PRODUCT, PRICE}	{<PRODUCT LEFT DELIMITER, PRODUCT RIGHT DELIMITER>, <PRICE LEFT DELIMITER, PRICE RIGHT DELIMITER>}
* * *	* * *

FIGURE 9

Delimiter	Candidates
Item Left Delimiter	<TR><TD><B> TR><TD><B> R><TD><B> ><TD><B> <TD><B> TD><B> D><B> ><B> <B> B> >
Item Right Delimiter	</B></TD><TD><I> </B></TD><TD><I </B></TD><TD>< </B></TD><TD> </B></TD><TD </B></TD><T </B></TD>< </B></TD> </B></TD </B></T </B></ </B>< </B> </B </ <
Price Left Delimiter	</B></TD><TD><I> /B></TD><TD><I> B></TD><TD><I> ></TD><TD><I> </TD><TD><I> /TD><TD><I> TD><TD><I> D><TD><I> ><TD><I> <TD><I> TD><I> D><I> ><I> <I> I> >

FIGURE 10A

Delimiter	Candidates
Price Right Delimiter	</I></TD></TR </I></TD></T </I></TD></ </I></TD>< </I></TD> </I></TD </I></T </I></ </I>< </I> </I </ <
Head	< <H <HT <HTM <HTML <HTML> … … … … … …
Tail	> L> ML> TML> HTML> /HTML> … … … … … …

FIGURE 10B

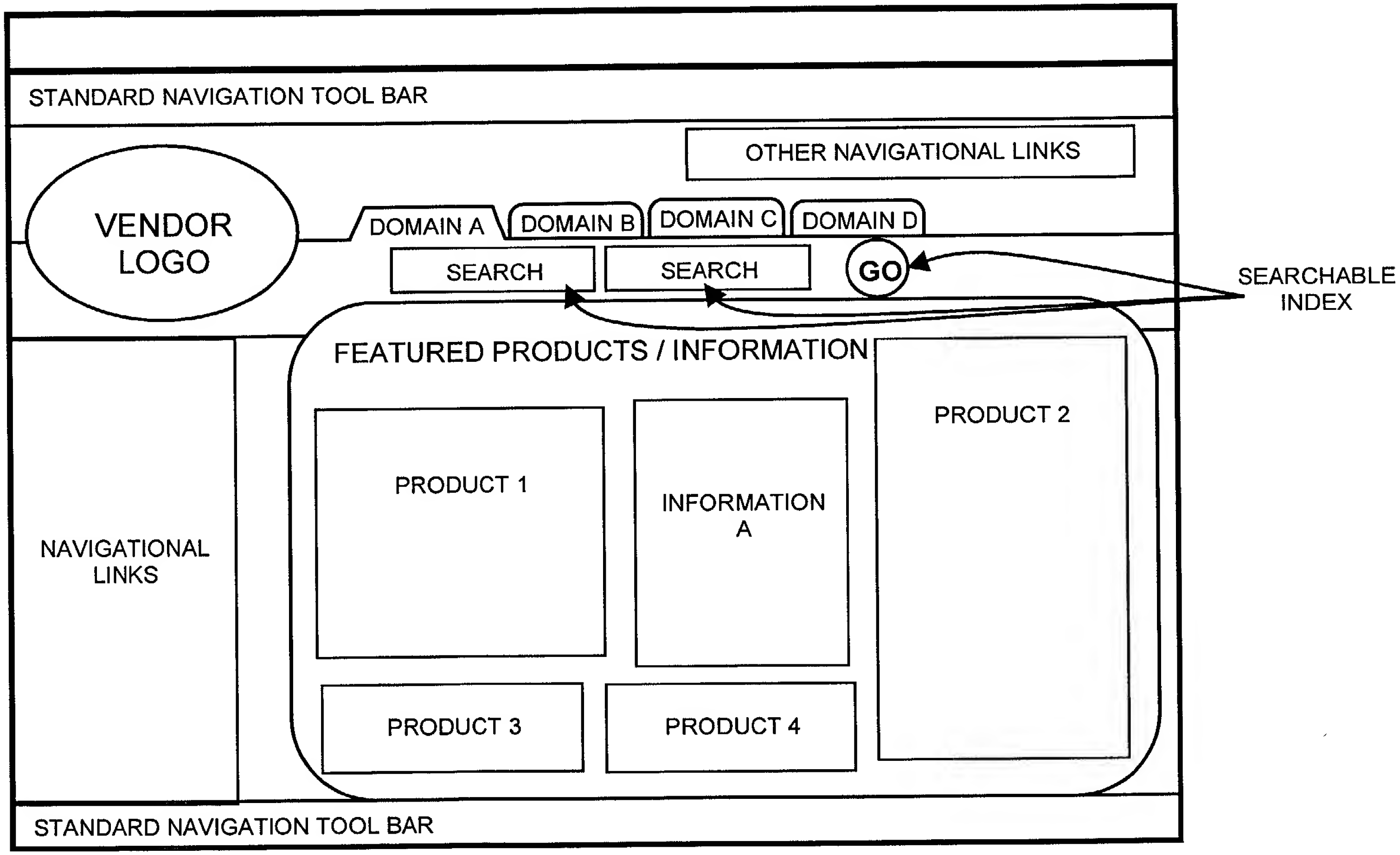

STANDARD NAVIGATION TOOL BAR
VENDOR LOGO
OTHER NAVIGATIONAL LINKS
DOMAIN A
DOMAIN B
DOMAIN C
DOMAIN D
SEARCH
SEARCH
GO
SEARCHABLE INDEX
NAVIGATIONAL LINKS
FEATURED PRODUCTS / INFORMATION
PRODUCT 1
INFORMATION A
PRODUCT 2
PRODUCT 3
PRODUCT 4
STANDARD NAVIGATION TOOL BAR

FIGURE 11

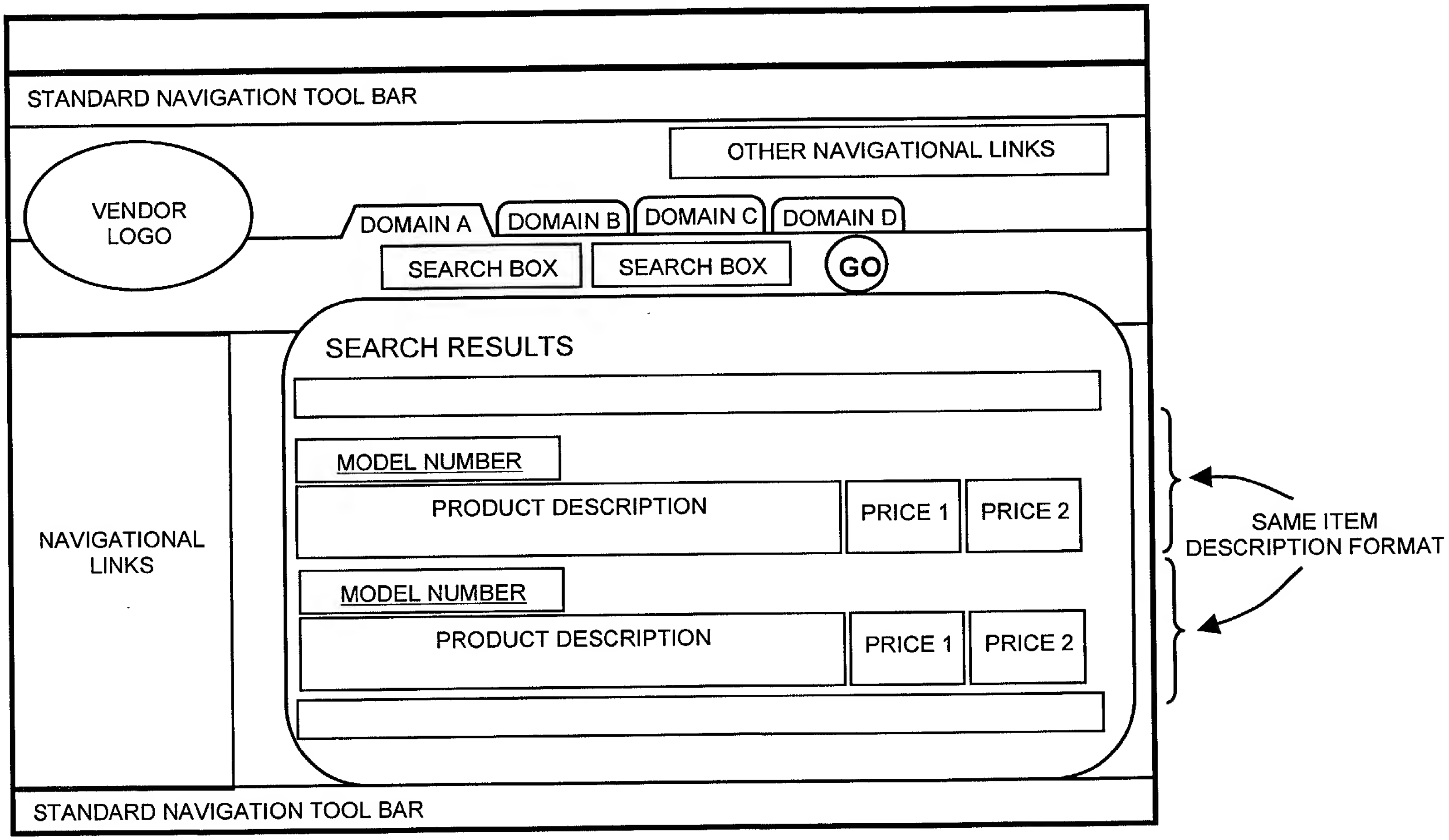

STANDARD NAVIGATION TOOL BAR
VENDOR LOGO
OTHER NAVIGATIONAL LINKS
DOMAIN A
DOMAIN B
DOMAIN C
DOMAIN D
SEARCH BOX
SEARCH BOX
GO
NAVIGATIONAL LINKS
SEARCH RESULTS
MODEL NUMBER
PRODUCT DESCRIPTION
PRICE 1
PRICE 2
MODEL NUMBER
PRODUCT DESCRIPTION
PRICE 1
PRICE 2
SAME ITEM DESCRIPTION FORMAT
STANDARD NAVIGATION TOOL BAR

FIGURE 12

new U.S. Appln. based on Appln. Nos. 60/236,574
& 60/299,360 for Online Intelligent Information…
Express Mail Label No. EL864389877US
Attorney Docket No.: 2102680-990101
Gray Cary et al. – GTS/415-836-2500
Applicants: Victor Hsieh Sheet 11 of 36

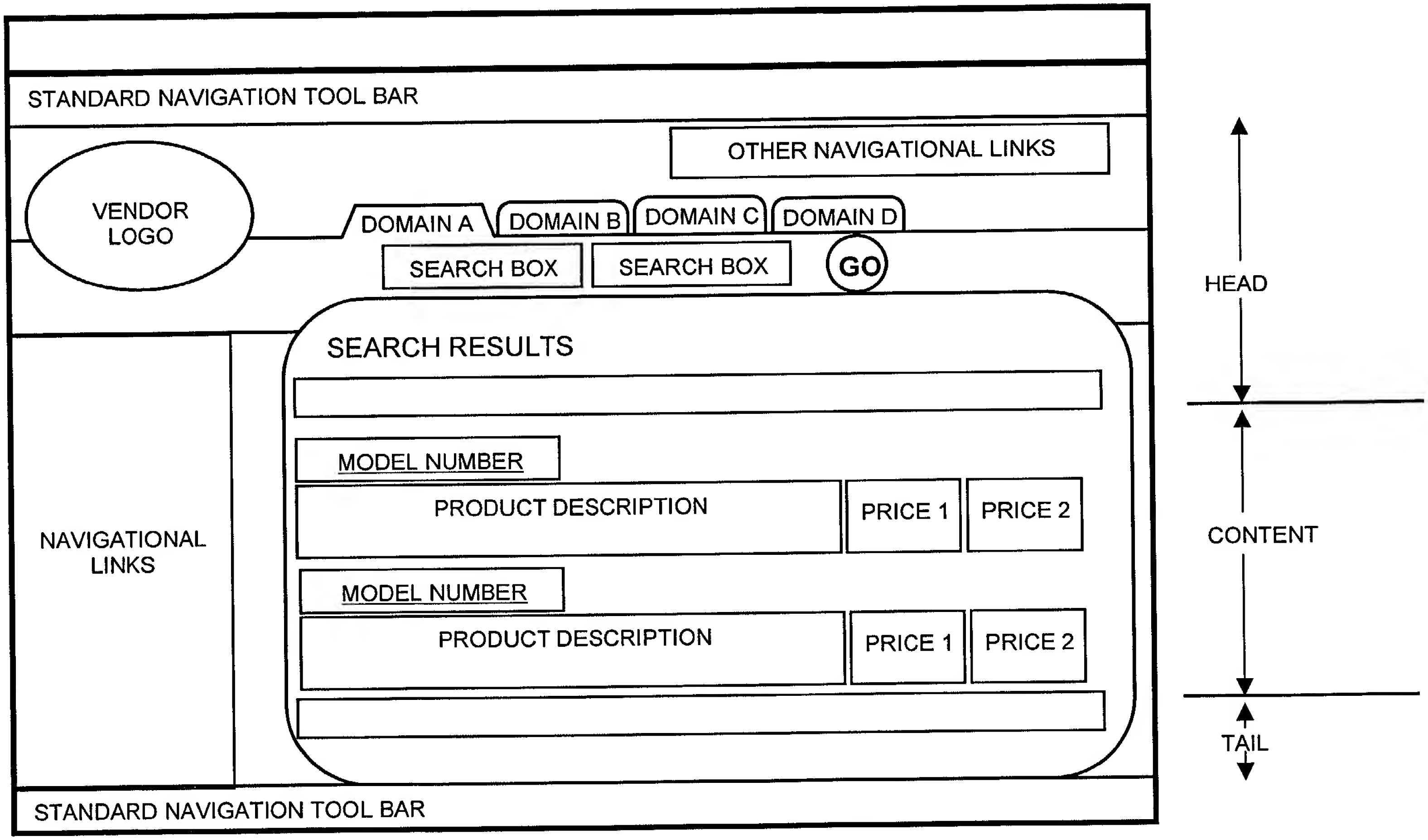
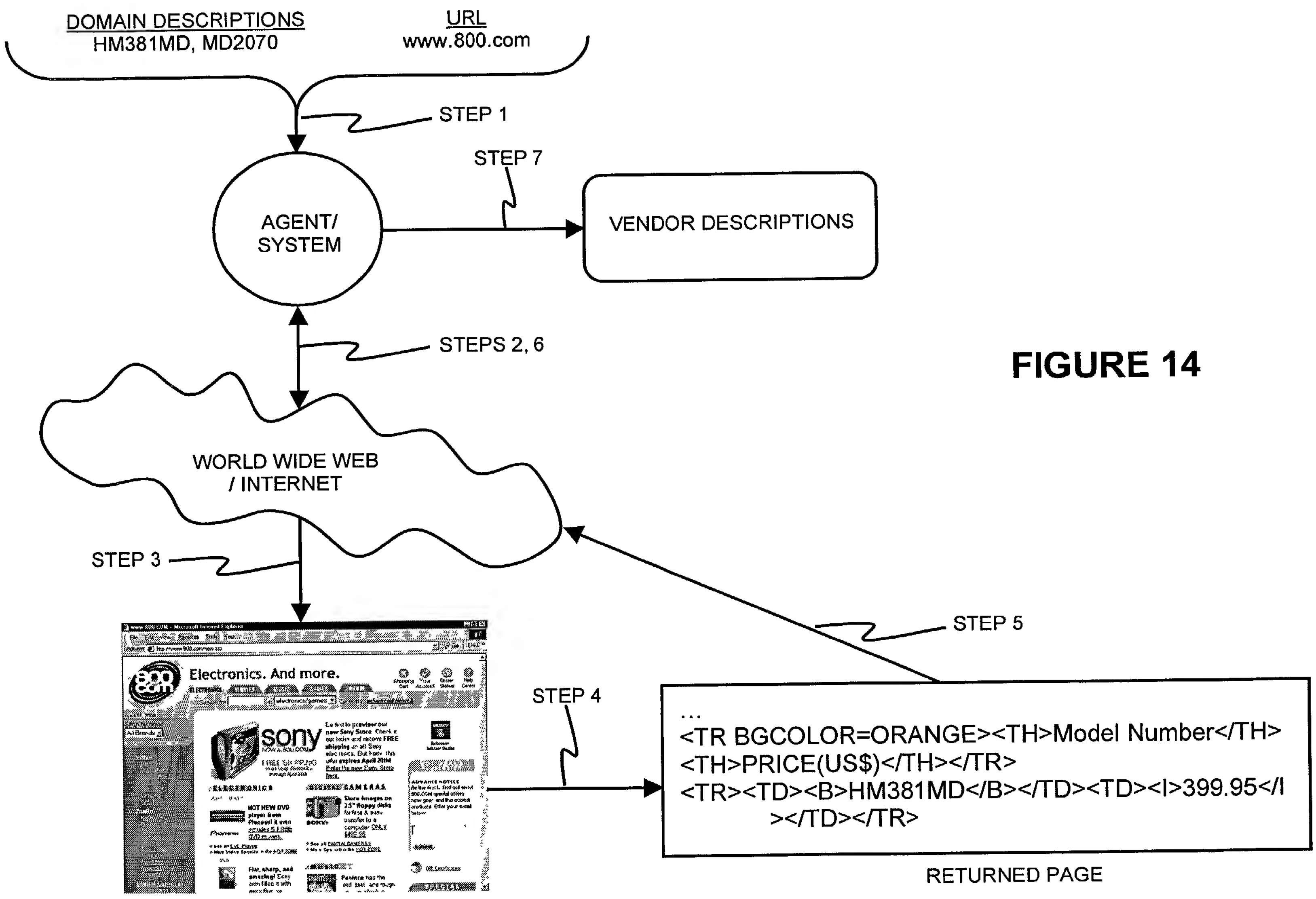


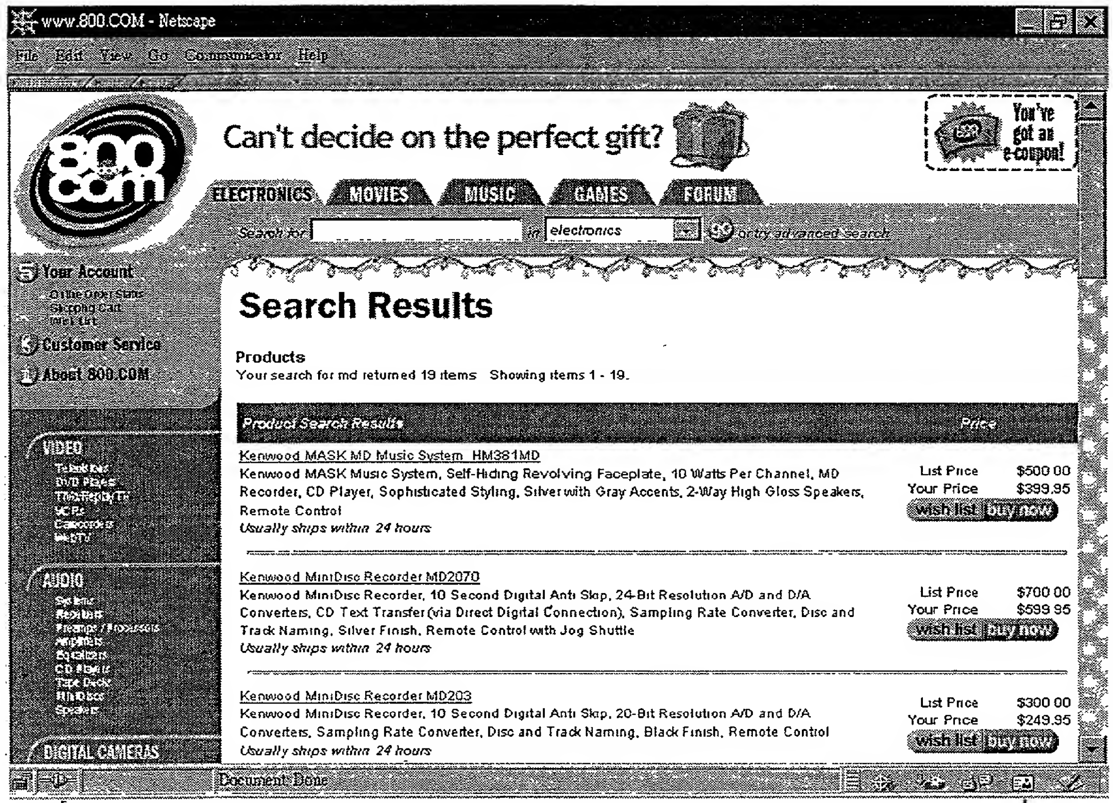
FIGURE 13



```
…
<TR BGCOLOR=ORANGE><TH>Model Number</TH>
<TH>PRICE(US$)</TH></TR>
<TR><TD><B>HM381MD</B></TD><TD><I>399.95</I
        ></TD></TR>
```

FIGURE 14

new U.S. Appln. based on Appln. Nos. 60/236,574
& 60/299,360 for Online Intelligent Information…
Express Mail Label No. EL864389877US
Attorney Docket No.: 2102680-990101
Gray Cary et al. – GTS/415-836-2500
Applicants: Victor Hsieh Sheet 13 of 36



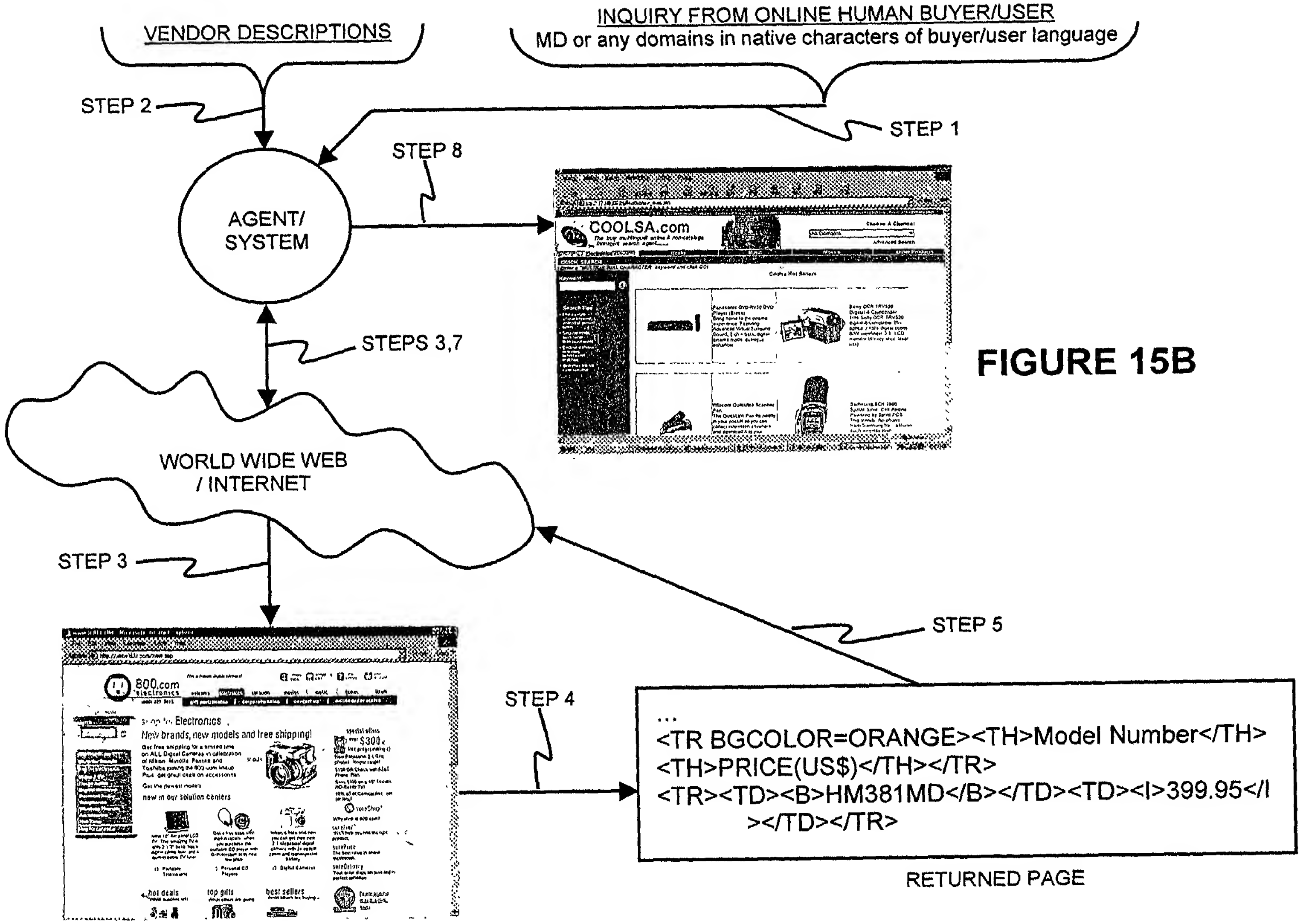
Search Results

Products

Your search for md returned 19 items Showing items 1 - 19.

Product Search Results		*Price*
Kenwood MASK MD Music System HM381MD Kenwood MASK Music System, Self-Hiding Revolving Faceplate, 10 Watts Per Channel, MD Recorder, CD Player, Sophisticated Styling, Silver with Gray Accents, 2-Way High Gloss Speakers, Remote Control *Usually ships within 24 hours*	List Price Your Price	$500 00 $399.95
Kenwood MiniDisc Recorder MD2070 Kenwood MiniDisc Recorder, 10 Second Digital Anti Skip, 24-Bit Resolution A/D and D/A Converters, CD Text Transfer (via Direct Digital Connection), Sampling Rate Converter, Disc and Track Naming, Silver Finish, Remote Control with Jog Shuttle *Usually ships within 24 hours*	List Price Your Price	$700 00 $599 95
Kenwood MiniDisc Recorder MD203 Kenwood MiniDisc Recorder, 10 Second Digital Anti Skip, 20-Bit Resolution A/D and D/A Converters, Sampling Rate Converter, Disc and Track Naming, Black Finish, Remote Control *Usually ships within 24 hours*	List Price Your Price	$300 00 $249.95

FIGURE 15A


VENDOR DESCRIPTIONS
INQUIRY FROM ONLINE HUMAN BUYER/USER
MD or any domains in native characters of buyer/user language
STEP 2
STEP 1
STEP 8
AGENT/ SYSTEM
STEPS 3,7
COOLSA.com
WORLD WIDE WEB / INTERNET
STEP 3
STEP 5
STEP 4
800.com electronics
RETURNED PAGE

```
...
<TR BGCOLOR=ORANGE><TH>Model Number</TH>
<TH>PRICE(US$)</TH></TR>
<TR><TD><B>HM381MD</B></TD><TD><I>399.95</I
        ></TD></TR>
```

FIGURE 15B

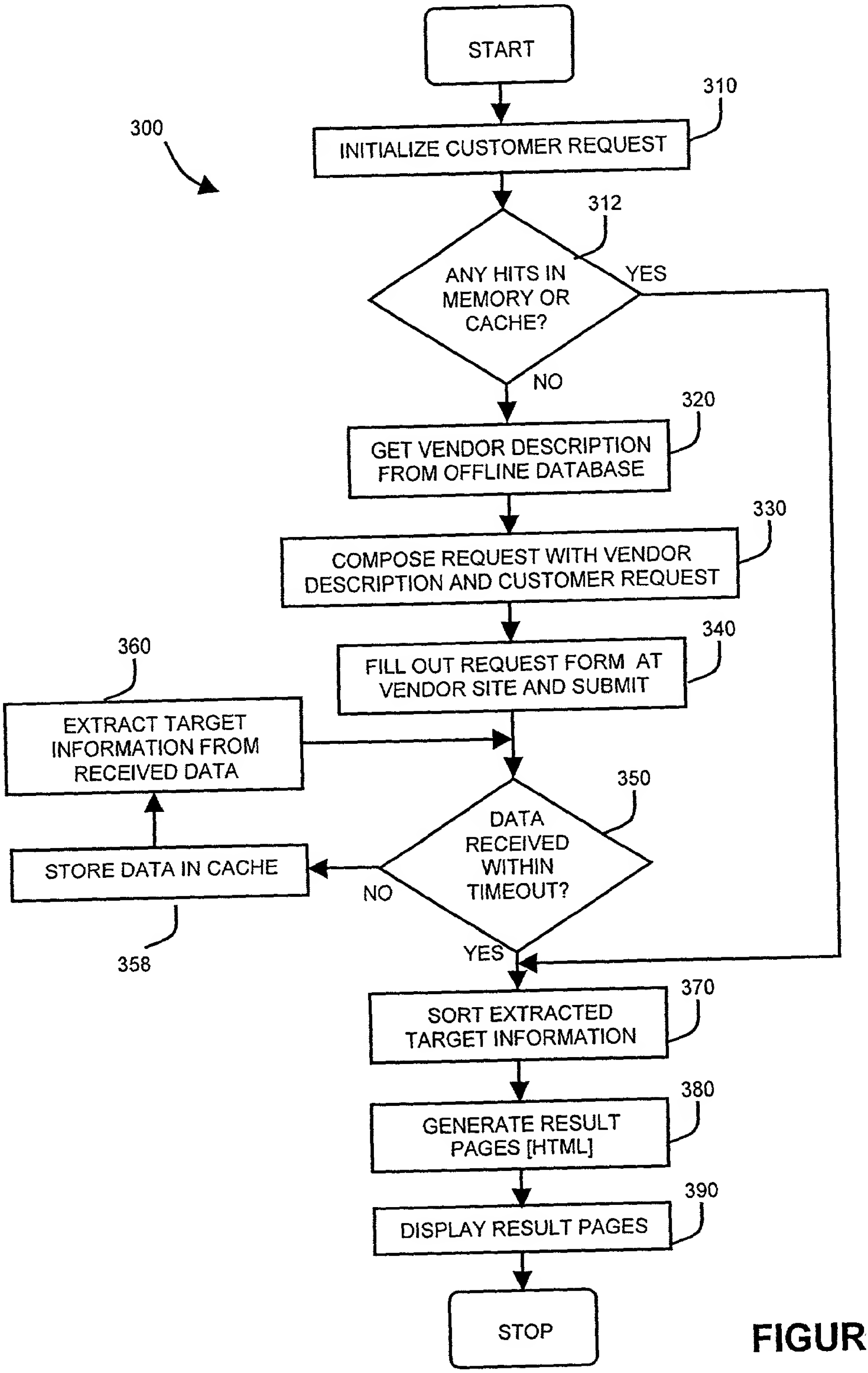

START
INITIALIZE CUSTOMER REQUEST
310
300
312
ANY HITS IN MEMORY OR CACHE?
YES
NO
GET VENDOR DESCRIPTION FROM OFFLINE DATABASE
320
COMPOSE REQUEST WITH VENDOR DESCRIPTION AND CUSTOMER REQUEST
330
FILL OUT REQUEST FORM AT VENDOR SITE AND SUBMIT
340
360
EXTRACT TARGET INFORMATION FROM RECEIVED DATA
350
DATA RECEIVED WITHIN TIMEOUT?
STORE DATA IN CACHE
NO
YES
358
SORT EXTRACTED TARGET INFORMATION
370
GENERATE RESULT PAGES [HTML]
380
DISPLAY RESULT PAGES
390
STOP

FIGURE 15C

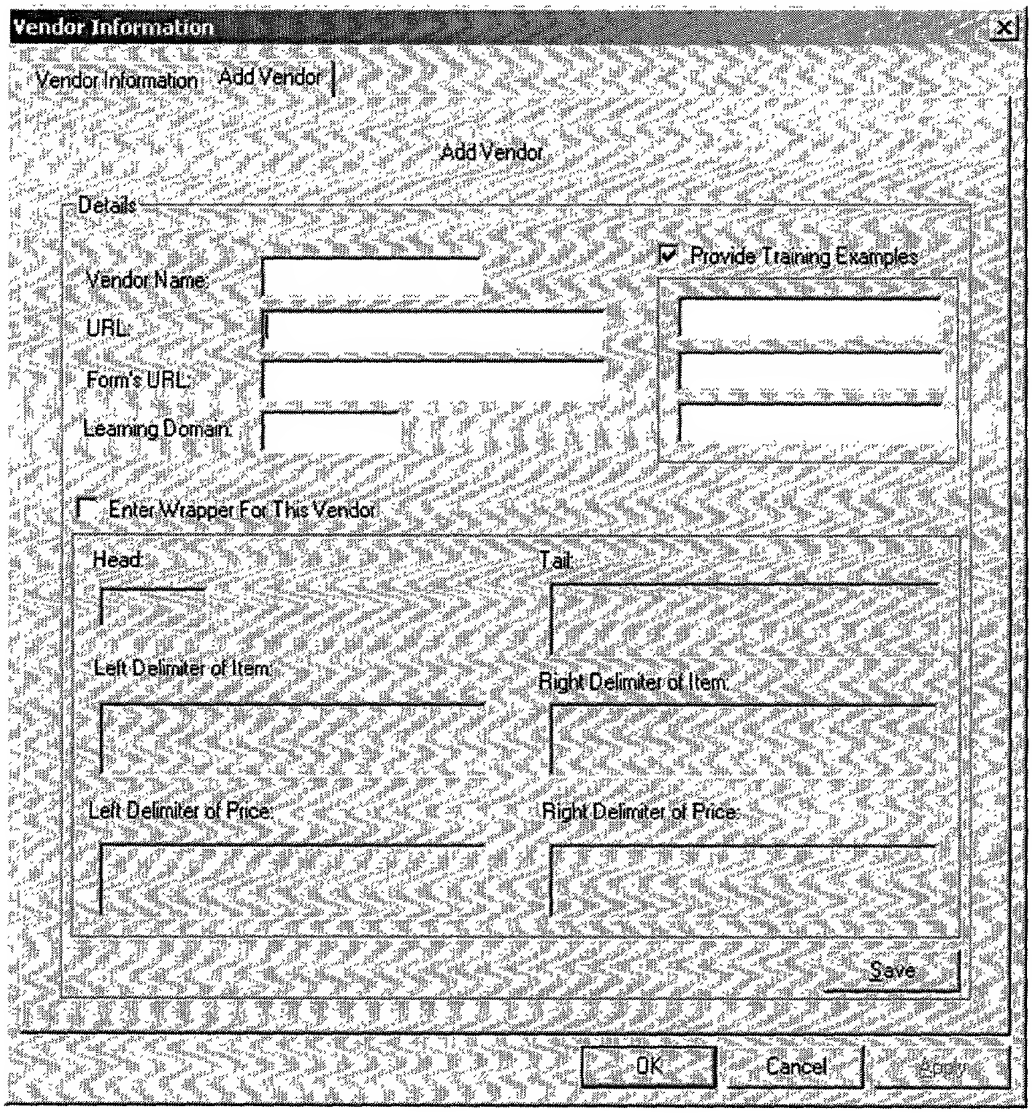
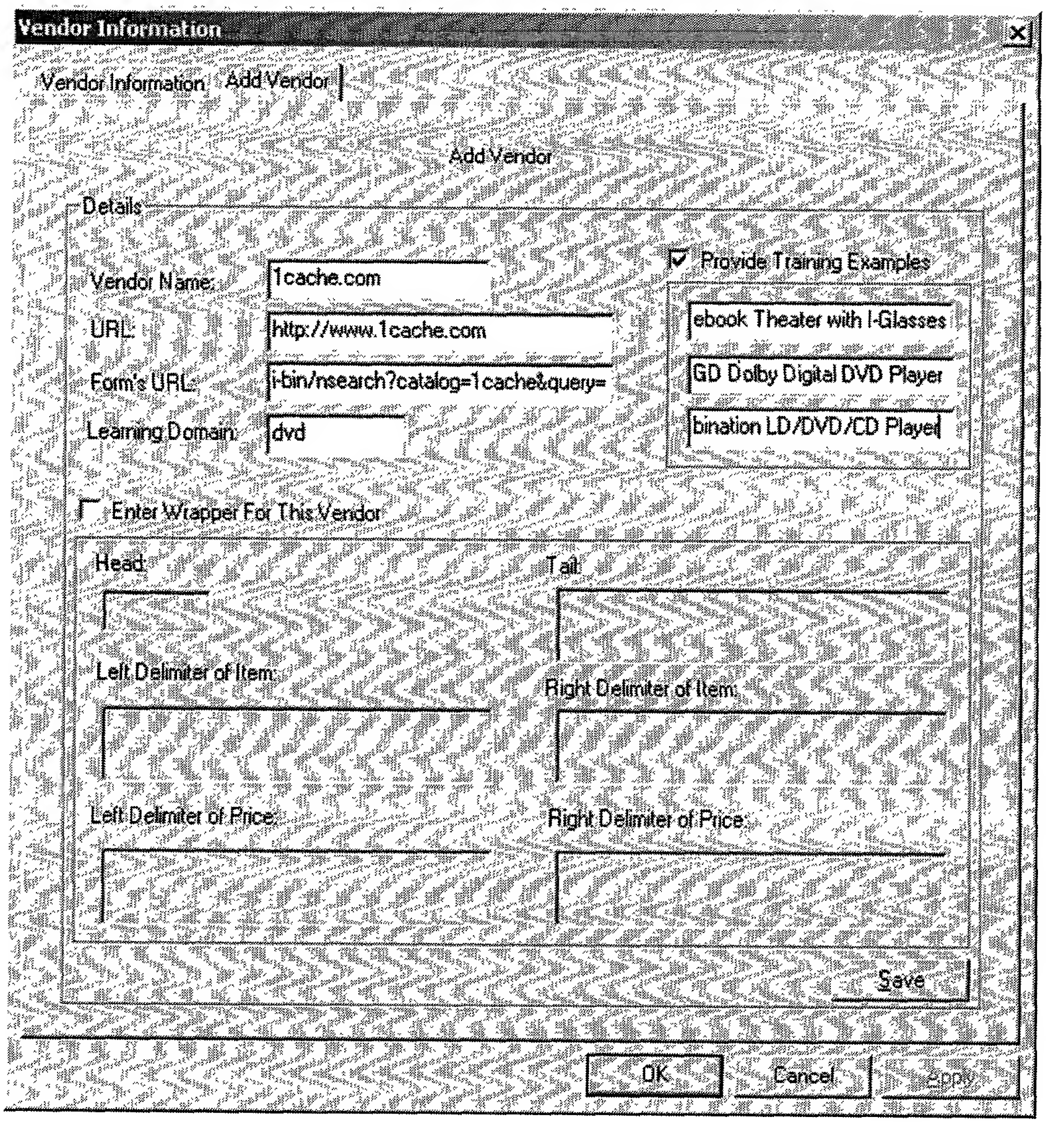

Vendor Information
Vendor Information
Add Vendor
Add Vendor
Details
Vendor Name:
URL:
Form's URL:
Learning Domain:
☑ Provide Training Examples
☐ Enter Wrapper For This Vendor
Head:
Tail:
Left Delimiter of Item:
Right Delimiter of Item:
Left Delimiter of Price:
Right Delimiter of Price:
Save
OK
Cancel
Apply

FIGURE 16



Vendor Name: 1cache.com

URL: http://www.1cache.com

Form's URL: i-bin/nsearch?catalog=1cache&query=

Learning Domain: dvd

☑ Provide Training Examples

ebook Theater with I-Glasses

GD Dolby Digital DVD Player

bination LD/DVD/CD Player

□ Enter Wrapper For This Vendor

Head:

Tail:

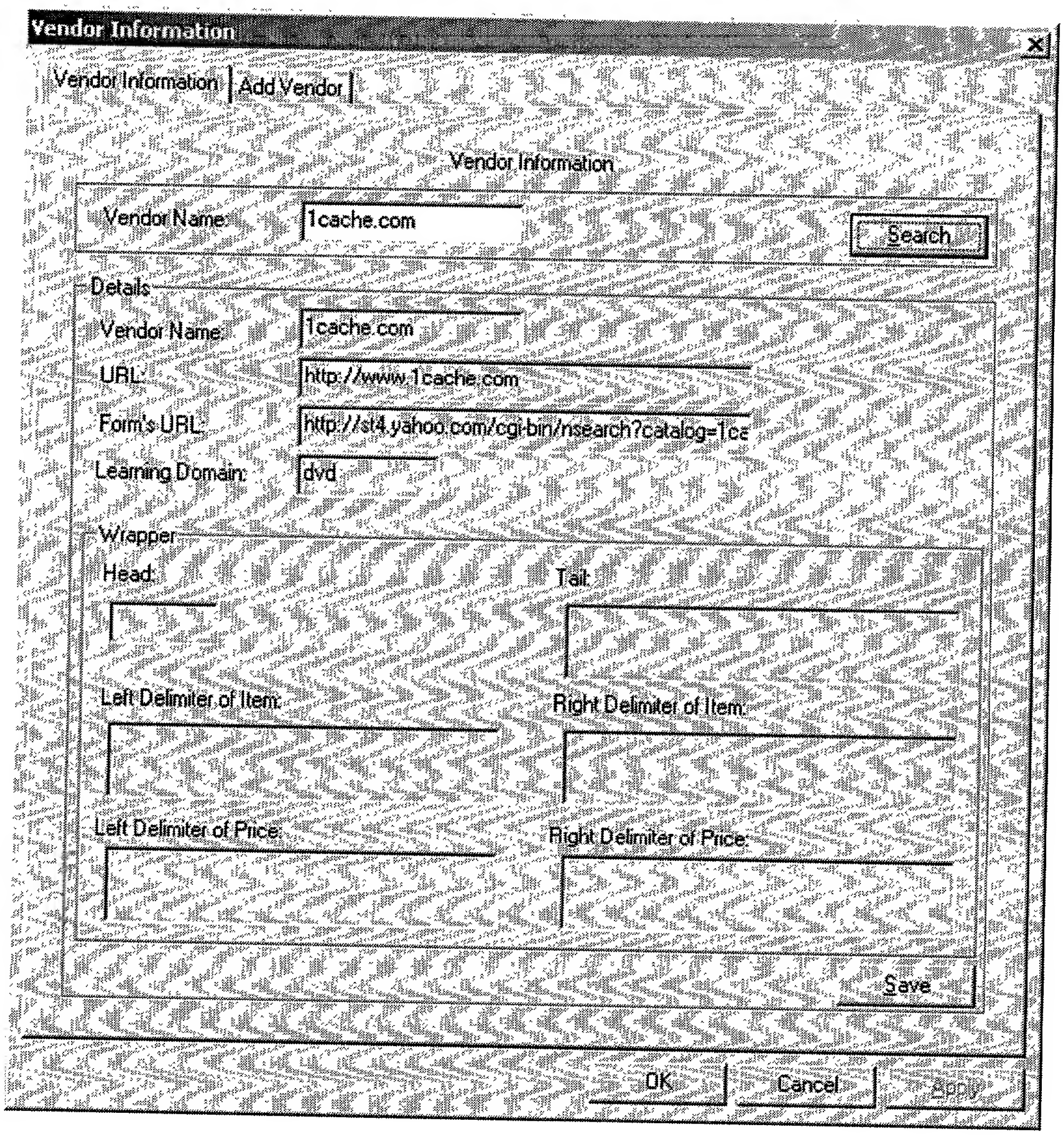
Left Delimiter of Item:

Right Delimiter of Item:

Left Delimiter of Price:

Right Delimiter of Price:

FIGURE 17



Vendor Information

Vendor Name: 1cache.com

Vendor Name: 1cache.com

URL: http://www.1cache.com

Form's URL: http://st4.yahoo.com/cgi-bin/nsearch?catalog=1ca

Learning Domain: dvd

FIGURE 18

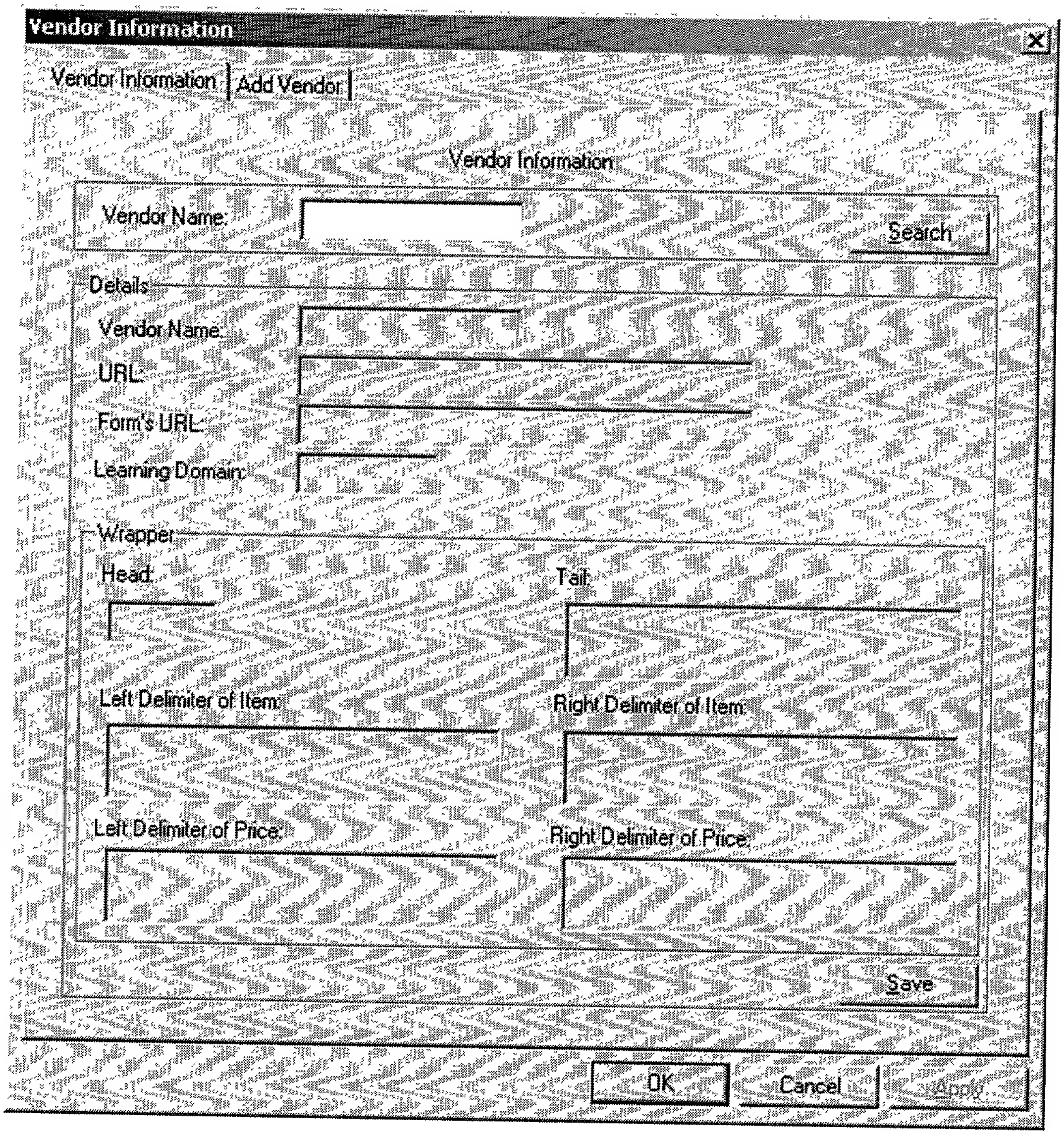
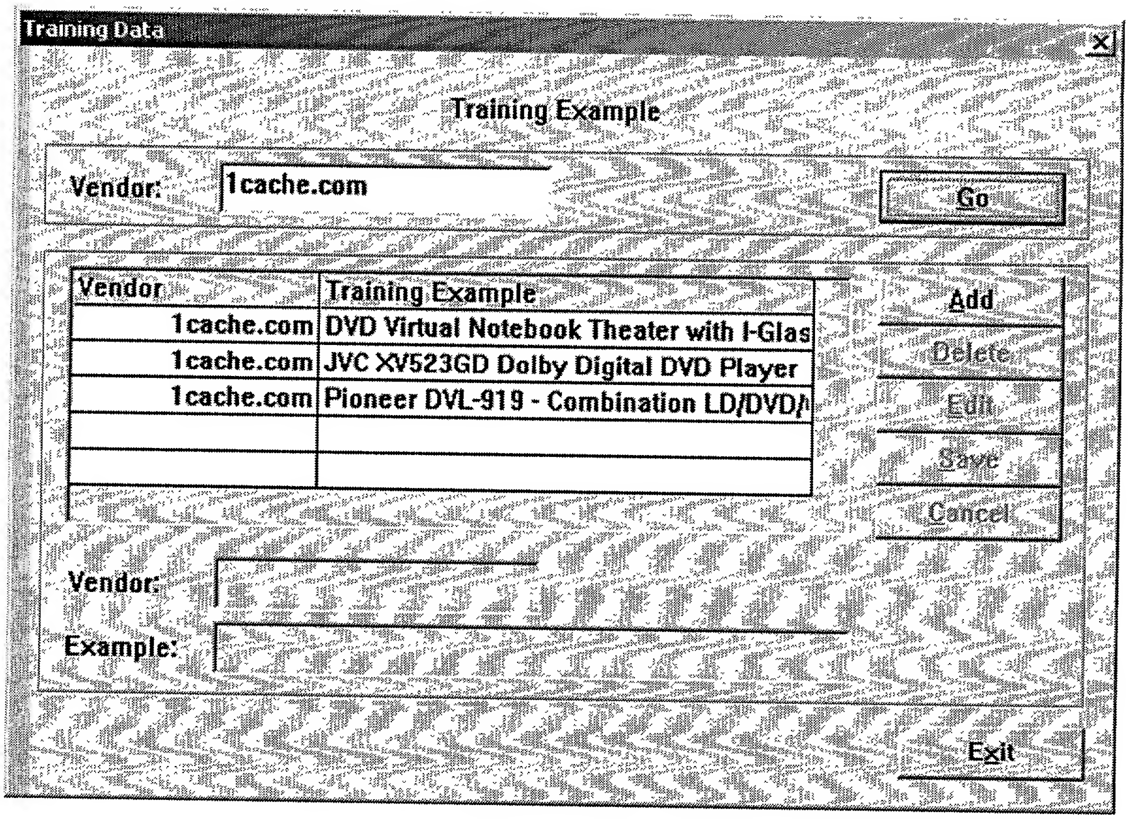

Vendor Information
Vendor Information
Add Vendor
Vendor Information
Vendor Name:
Search
Details
Vendor Name:
URL:
Form's URL:
Learning Domain:
Wrapper
Head:
Tail:
Left Delimiter of Item:
Right Delimiter of Item:
Left Delimiter of Price:
Right Delimiter of Price:
Save
OK
Cancel
Apply

FIGURE 19



Training Data

Training Example

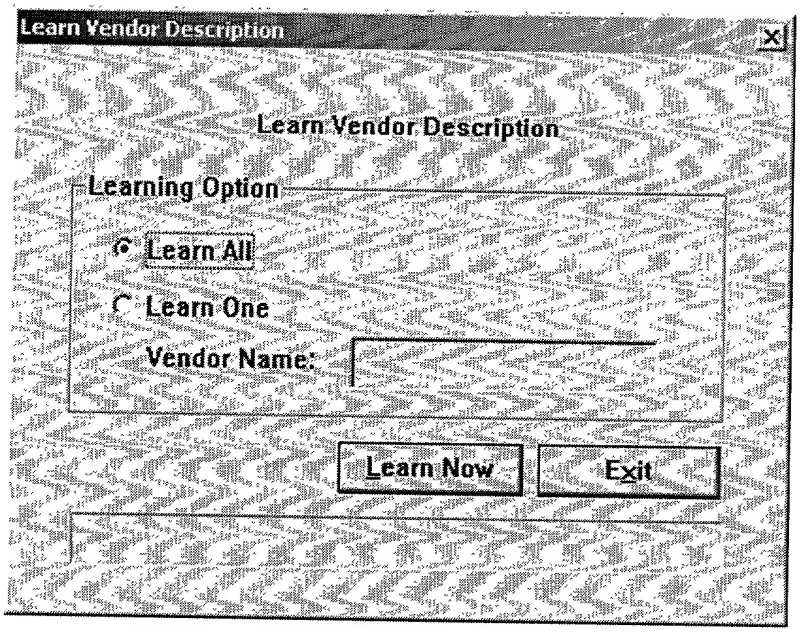
Vendor: 1cache.com

Vendor	Training Example
1cache.com	DVD Virtual Notebook Theater with I-Glas
1cache.com	JVC XV523GD Dolby Digital DVD Player
1cache.com	Pioneer DVL-919 - Combination LD/DVD/

Vendor:

Example:

FIGURE 20



Learn Vendor Description

Learn Vendor Description

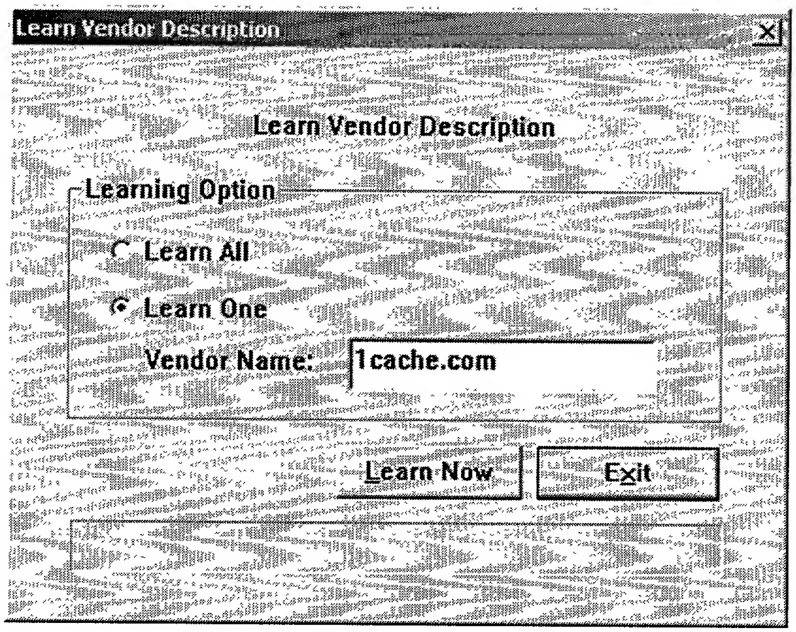
Learning Option

● Learn All

○ Learn One

Vendor Name:

FIGURE 21



Learn Vendor Description

Learn Vendor Description

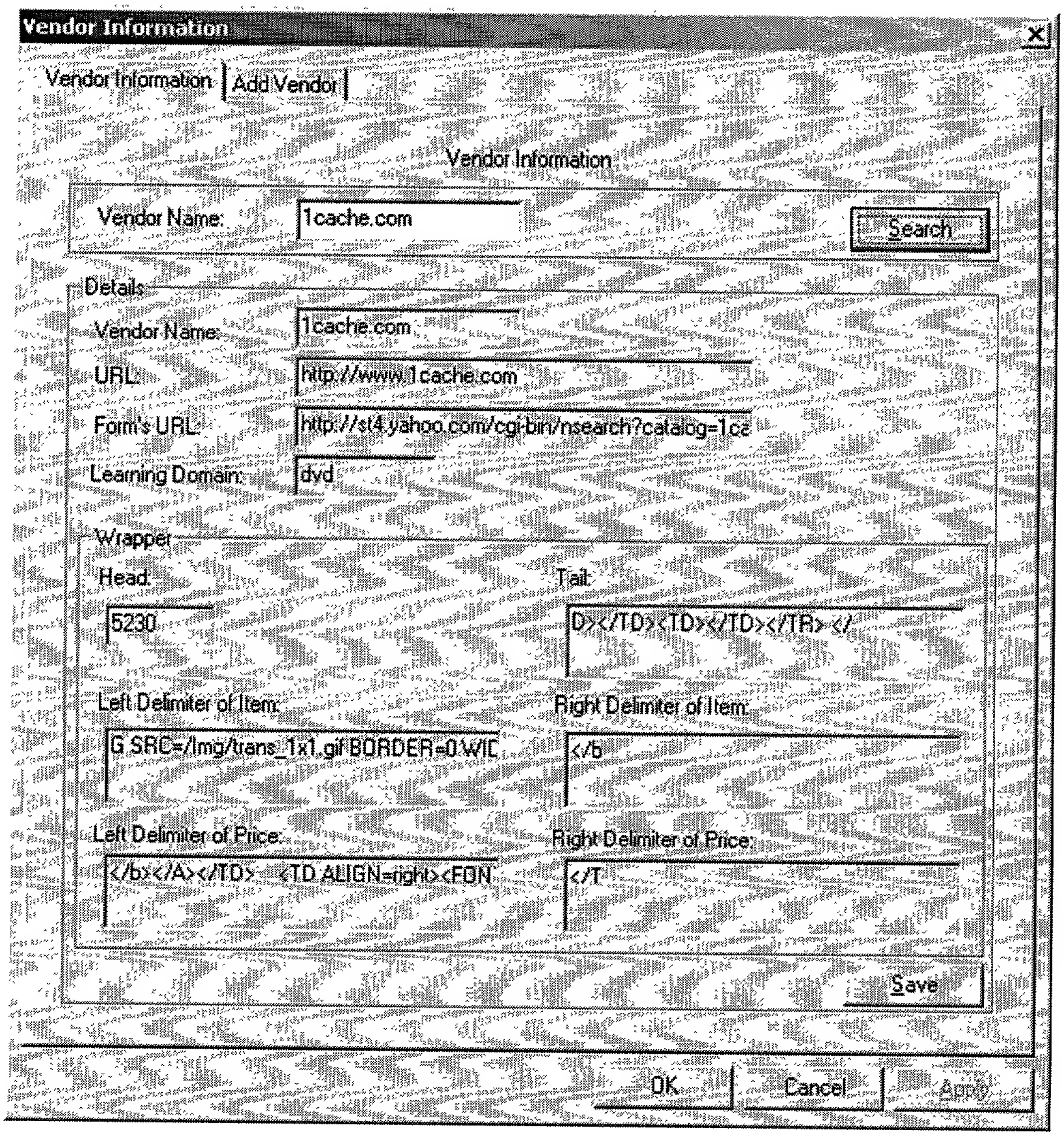
Learning Option

○ Learn All

● Learn One

Vendor Name: 1cache.com

FIGURE 22



Vendor Information

Vendor Name: 1cache.com

Details:

Vendor Name: 1cache.com

URL: http://www.1cache.com

Form's URL: http://st4.yahoo.com/cgi-bin/nsearch?catalog=1ca

Learning Domain: dvd

Wrapper

Head: 5230

Tail: D></TD><TD></TD></TR> </

Left Delimiter of Item: G SRC=/Img/trans_1x1.gif BORDER=0 WID

Right Delimiter of Item: </b

Left Delimiter of Price: </b></A></TD> <TD ALIGN=right><FON

Right Delimiter of Price: </T

FIGURE 23

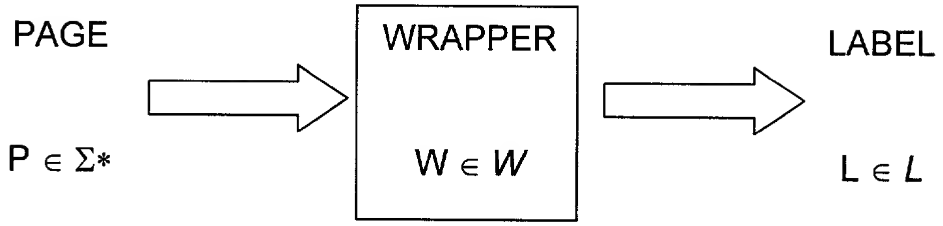


FIGURE 24

```
procedure **exec_HLRT** (wrapper (h, $l_i$, $r_i$, $l_p$, $r_p$, t), page *P*)
    m ← 0
    *scan* in *P* to line *h*
    while the next occurrence of $l_i$ in *P* occurs before the next occurrence of *t*
        m ← m + 1
        scan in *P* to the next occurrence of $l_i$ in P; save position as $b_{m,i}$
        scan in *P* the next occurrence of $r_i$ ; save position as $e_{m,i}$
        scan in *P* to the next occurrence of $l_p$ in P; save position as $b_{m,p}$
       scan in *P* to next occurrence of $r_p$; save position as $e_{m,p}$
return label {. . ., <<$b_{mi}$, $e_{mi}$>,<$b_{mp}$, $e_{mp}$>>}
```

FIGURE 25

```
Procedure **learnHLRT** (examples ε)
1. Generate the candidate sets **Cands_r(l, ϵ)**, **Cands_l(l, ϵ )**, **Cands_r(p, ϵ)**, **Cands_l(p, ϵ )**.

2. Enumerate the cross product of these candidate sets; each element W = (h, $l_i$, $r_i$, $l_p$, $r_p$, t), of this cross product is a wrapper. Halt if W is satisfactory i.e., execLR(W, $P_n$) = Ln, for every ($P_n$, Ln) ∈ ε.
```

FIGURE 26

```
  /*
 * The main problem
 */
   procedure learnHLRT (examples $\varepsilon$) for each 1 <k <K
     for each u $\in$ cands$_l$(p, $\varepsilon$): if valid$_l$(u, p, $\varepsilon$) then $l_p \leftarrow$ u and terminate this loop
     for each u $\in$ cands$_r$(i, $\varepsilon$): if valid$_r$(u, i, $\varepsilon$) then $r_i \leftarrow$and terminate this loop
     for each u $\in$ cands$_r$(p, $\varepsilon$): if valid$_r$(u, p, $\varepsilon$) then $r_p \leftarrow$u and terminate this loop
     for each $u_{li} \in$ cands$_l$(i, $\varepsilon$)
     for each $u_h \in$ cands$_h$($\varepsilon$)
        for each $u_t \in$ cands$_t$($\varepsilon$)
           if valid$_{i,h,t}$( $u_{li}$, $u_h$, $u_t$, $\varepsilon$) then
              $l_i \leftarrow u_{li}$, h$\leftarrow u_h$, t$\leftarrow u_t$, and terminate these three loops
   return HLRT wrapper (h, $l_i$, $r_i$, $l_p$, $r_p$, t)

/*
 *Generate a set of candidates for left delimiter of price attribute
 */
procedure cands$_l$(attribute price, examples $\varepsilon$)
 return the set of all suffixes of the shortest string in neighbors$_l$(price, $\varepsilon$)

/*
 *Generate a set of candidates for right delimiter of attribute a.  Here a could be item or price
 */
procedure cands$_r$(attribute a, examples $\varepsilon$)
     return the set of all prefixes of the shortest string in neighbors$_r$(a, $\varepsilon$)
/*
 * Generate a set of candidates for a page's head
 */
procedure cands$_h$ (examples $\varepsilon$)
     return the set of all substrings of the shortest string in heads($\varepsilon$)

/*
 *Generate a set of candidates for a page's tail
 */
procedure cands$_t$(example $\varepsilon$)
     return the set of all substrings of the shortest string in tails($\varepsilon$)

/*
 *Determine whether a particular candidate for the left delimiter of price is valid
 *This procedure applies constraints C3
 */
  procedure valid$_l$(candidate u, attribute price, examples $\varepsilon$)
          for each s$\in$ neighbors$_l$(price, $\varepsilon$): if u is not a proper suffix of s then return FALSE
```

Figure 27A

```
        for each s $\in$ tails($\varepsilon$): If u is a sub string of s then return FALSE
        return TRUE

/*
 *Determine whether a particular candidate for the right delimiter of item or price is
 *valid
 *This procedure applies constraints C1 and C2
*/
    procedure valid$_r$(candidate u, attribute a, examples $\varepsilon$)
for each s $\in$ attribs(a, $\varepsilon$): if u is a sub string of s then return FALSE
for each s $\in$ neighbors(a, $\varepsilon$): if u is not a prefix of s then return FALSE
    return TRUE
/*
 *Determine whether a particular combination of candidate uh, ut, and uli for h, t, and
 *li respectively are satisfactory.
 */
procedure valid$_{li,h,t}$(candidates u$_{li}$, u$_h$, u$_t$, example $\varepsilon$)
    for each s $\in$ heads($\varepsilon$)
        if is not a sub string of s then return FALSE
      if U$_{l1}$ is not a proper suffix of scan (s, Uh) then return FALSE
            if Ut occurs before U1$_1$ in scan (s, Uh), then return FALSE
    for each s $\in$ tails ($\varepsilon$)
      if Ut 1S not a sub string of s then return FALSE
        if Uli occurs before Ut in s then return FALSE
    for each s $\in$ seps($\varepsilon$)
        if Uli is not a proper suffix of s then return FALSE
            if Ut occurs before Uli in s then return FALSE
    return TRUE

/*
 *Return a set of containing all values of a attribute, either item(i) or price(p) in each
 *example
*/.
    procedure attribs(attribute a, examples $\varepsilon$)
            return U$_{(Pn,Ln)}$ $\in$ $\varepsilon$(Pn[b$_{m,a}$, e$_{m,a}$] |<. . ., (b$_{m,k}$, e$_{m,k}$), . . . > $\in$ Ln}

/*
 *Return all strings to the left of an attribute, whether these strings are in the heads
 * or the bodies of the pages
*/
    procedure neighbors$_l$(attribute a, examples $\varepsilon$)
            if a=i then return seps (i, $\varepsilon$) U heads ($\varepsilon$) else return seps (a, $\varepsilon$)
/*
```

FIGURE 27B

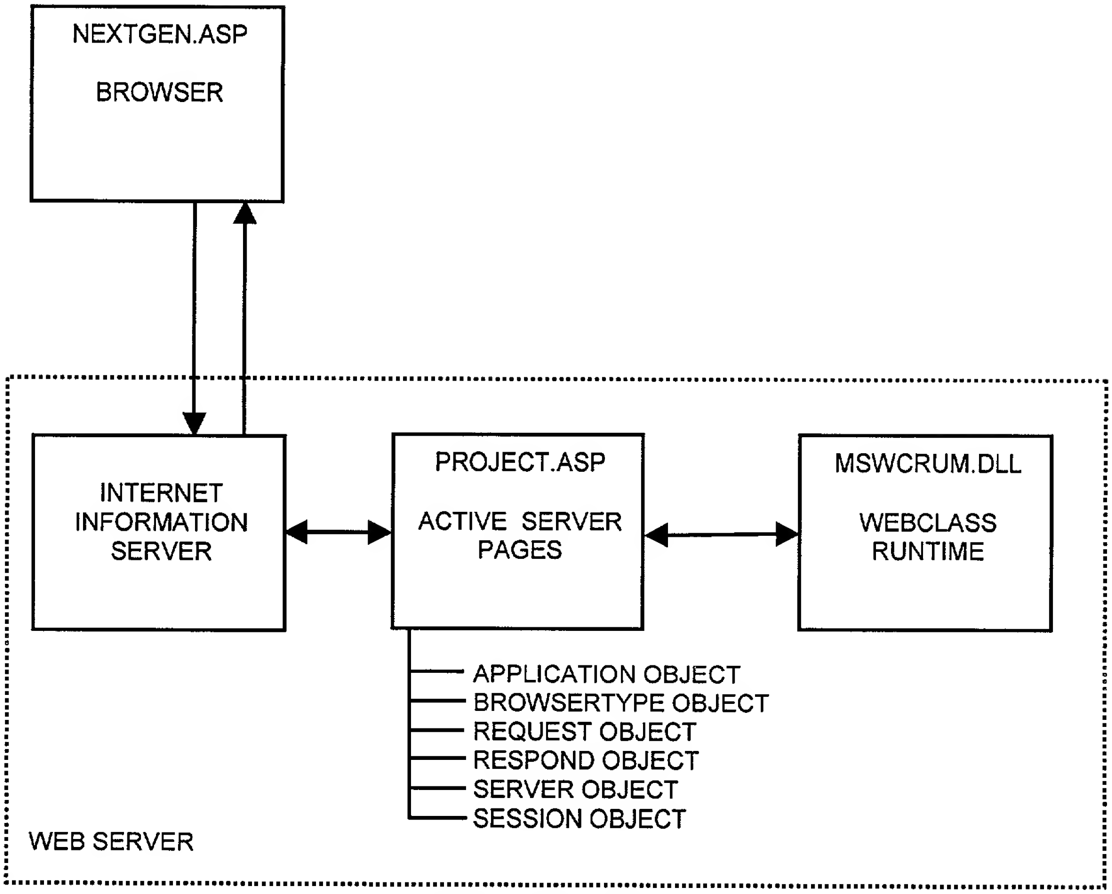


FIGURE 28

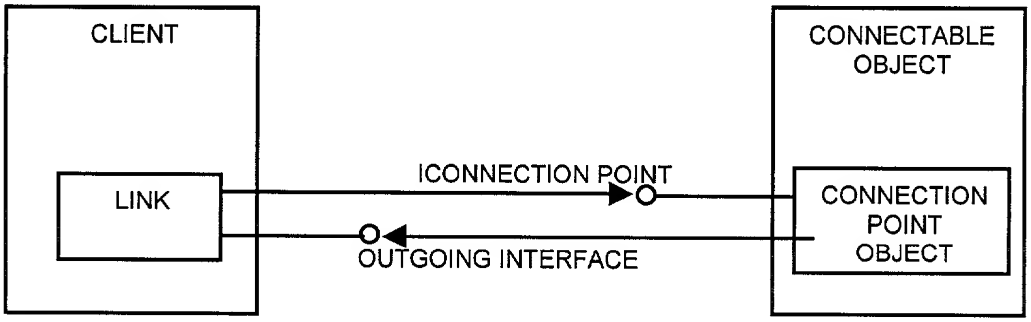


FIGURE 29

FIGURE 30

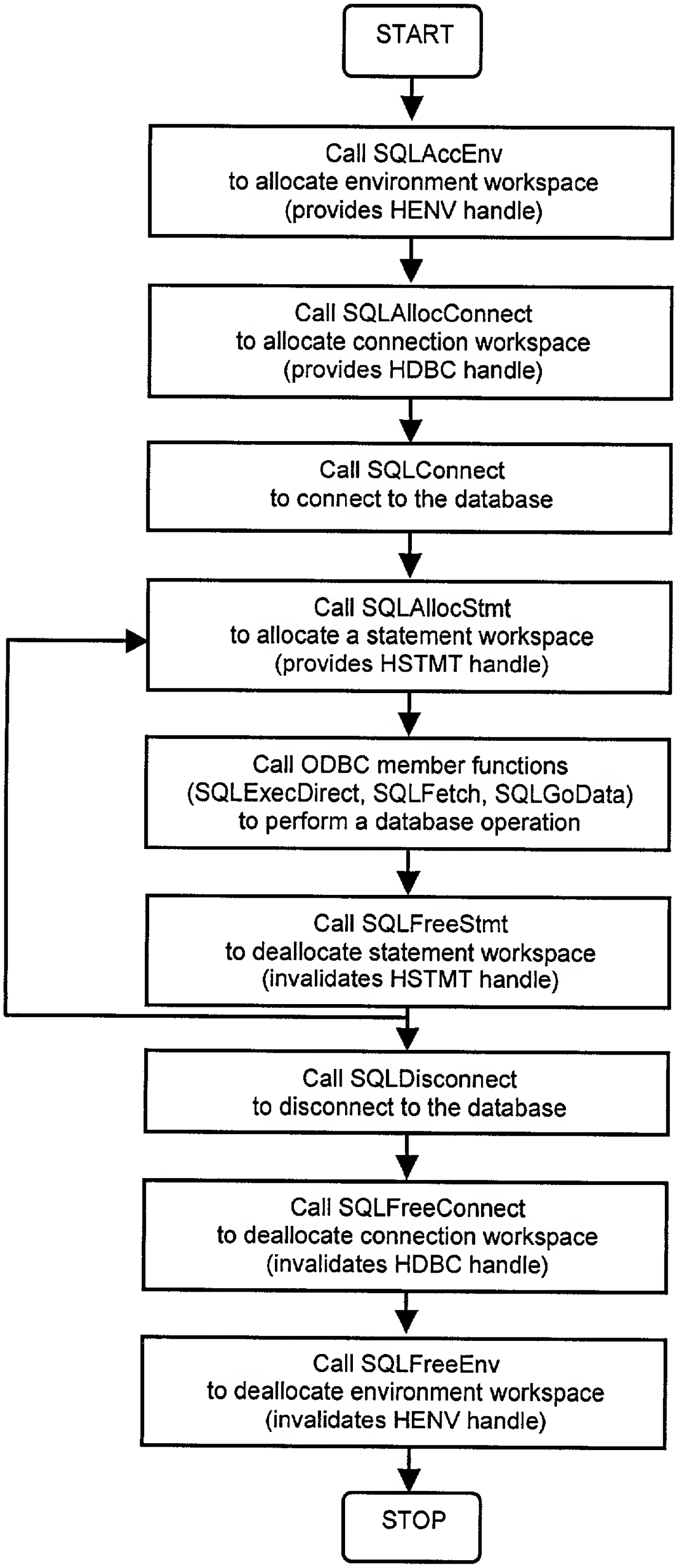
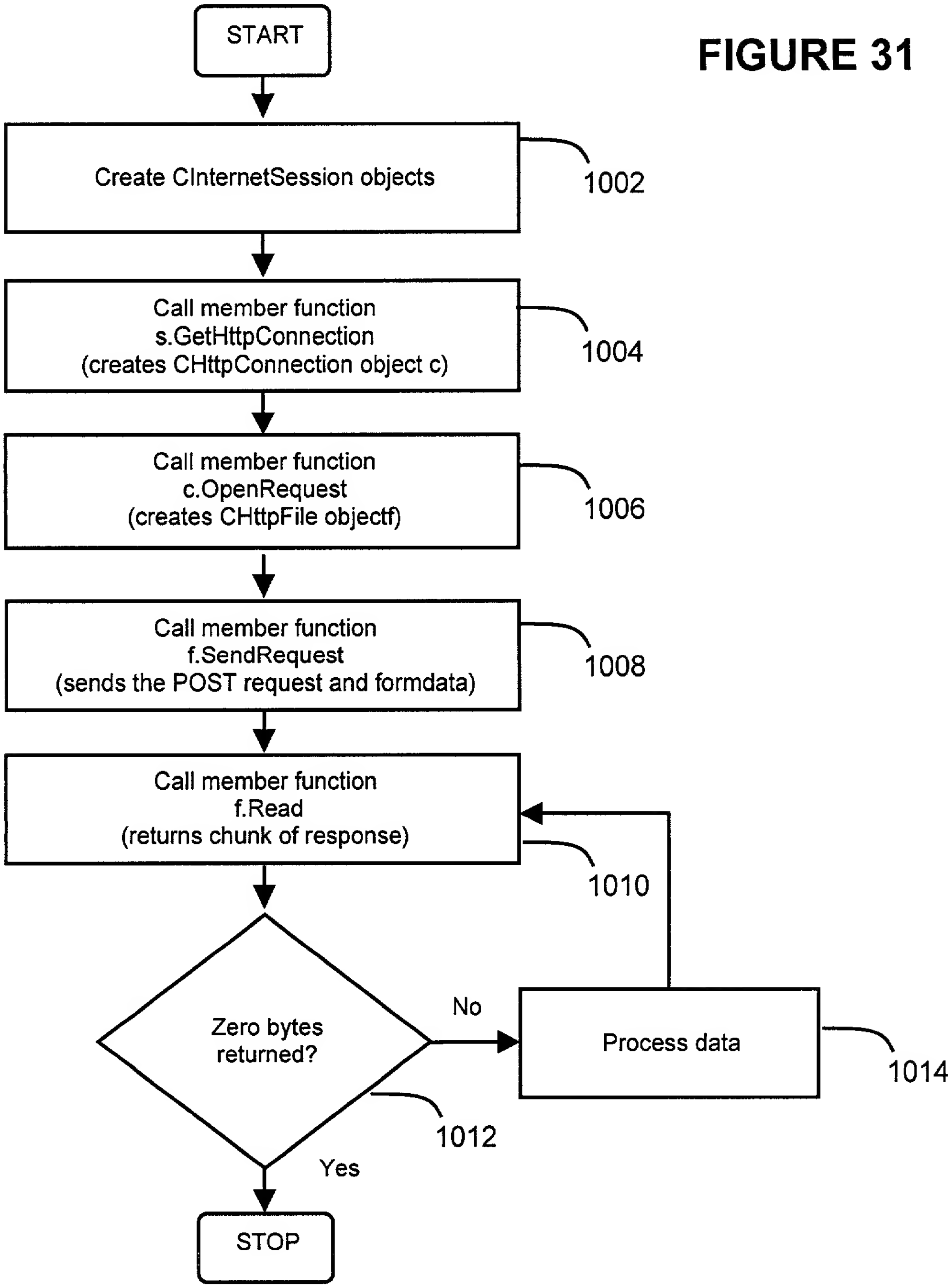
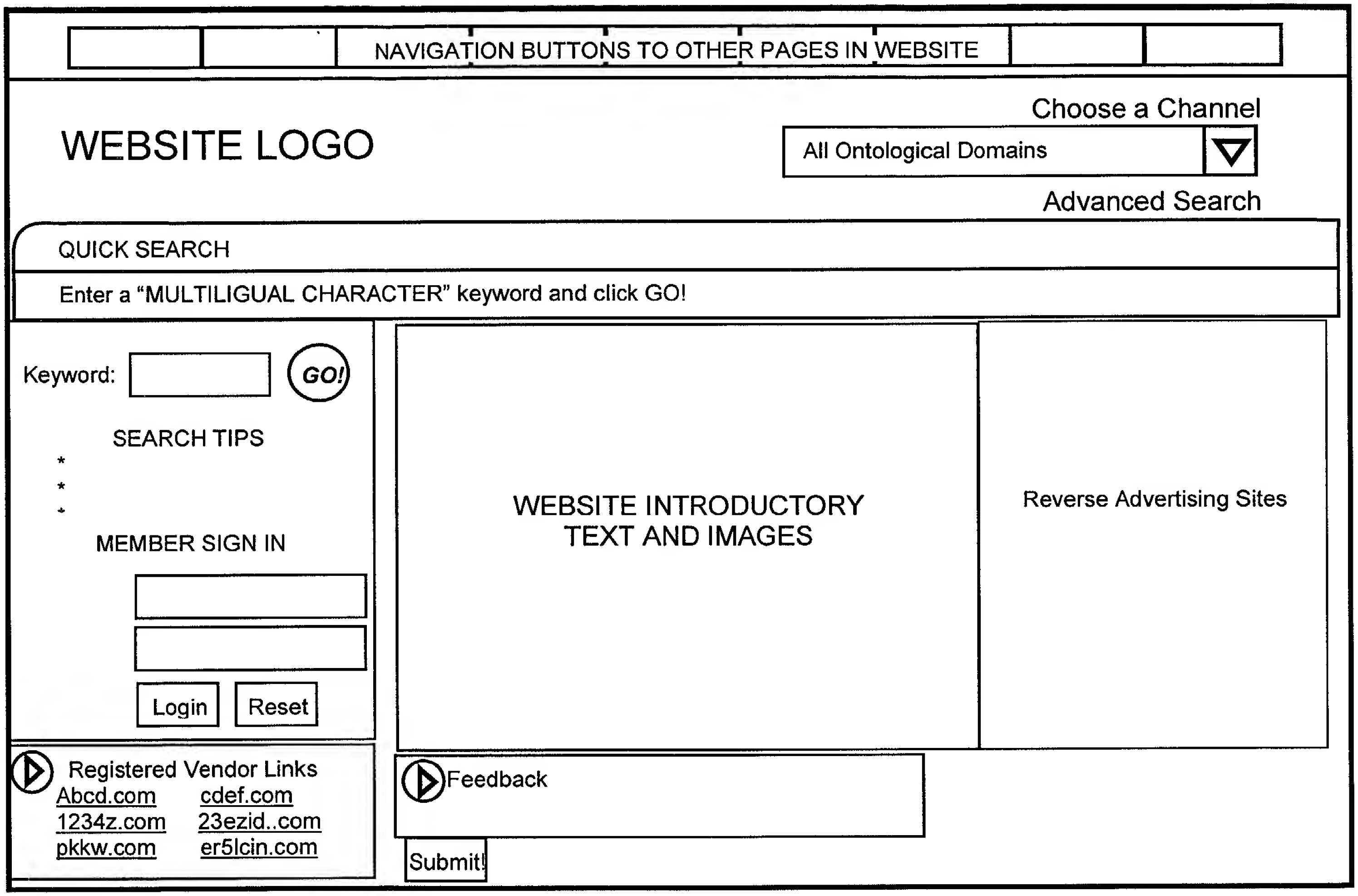

START
Call SQLAccEnv
to allocate environment workspace
(provides HENV handle)
Call SQLAllocConnect
to allocate connection workspace
(provides HDBC handle)
Call SQLConnect
to connect to the database
Call SQLAllocStmt
to allocate a statement workspace
(provides HSTMT handle)
Call ODBC member functions
(SQLExecDirect, SQLFetch, SQLGoData)
to perform a database operation
Call SQLFreeStmt
to deallocate statement workspace
(invalidates HSTMT handle)
Call SQLDisconnect
to disconnect to the database
Call SQLFreeConnect
to deallocate connection workspace
(invalidates HDBC handle)
Call SQLFreeEnv
to deallocate environment workspace
(invalidates HENV handle)
STOP

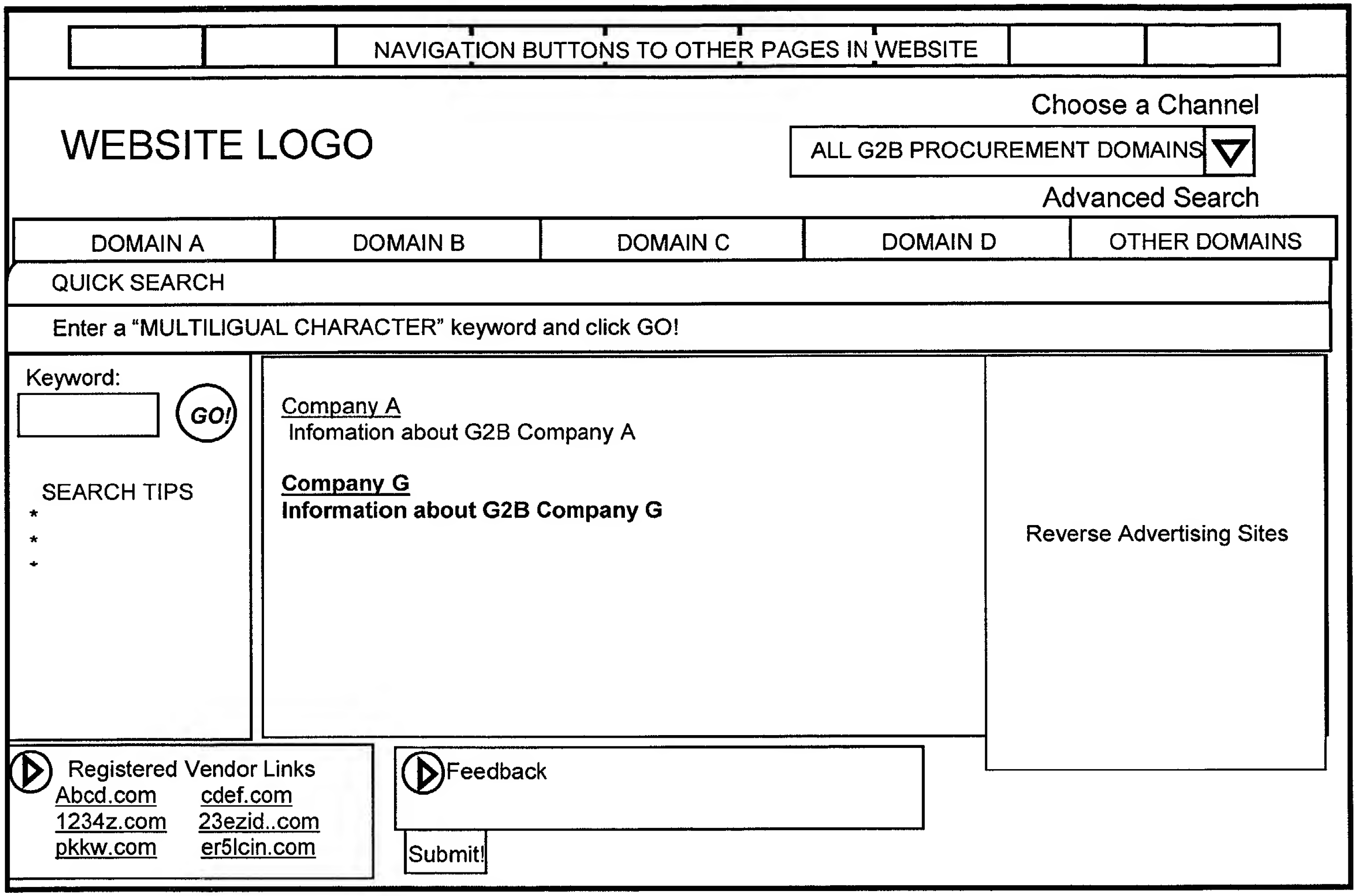
FIGURE 31


START
Create CInternetSession objects
1002
Call member function
s.GetHttpConnection
(creates CHttpConnection object c)
1004
Call member function
c.OpenRequest
(creates CHttpFile objectf)
1006
Call member function
f.SendRequest
(sends the POST request and formdata)
1008
Call member function
f.Read
(returns chunk of response)
1010
Zero bytes
returned?
1012
No
Process data
1014
Yes
STOP



Enter a “MULTILIGUAL CHARACTER” keyword and click GO!

FIGURE 32



NAVIGATION BUTTONS TO OTHER PAGES IN WEBSITE

WEBSITE LOGO

Choose a Channel

ALL G2B PROCUREMENT DOMAINS ▼

Advanced Search

DOMAIN A	DOMAIN B	DOMAIN C	DOMAIN D	OTHER DOMAINS

QUICK SEARCH

Enter a “MULTILIGUAL CHARACTER” keyword and click GO!

Keyword:

GO!

SEARCH TIPS

*

*

*

Company A
Infomation about G2B Company A

Company G
Information about G2B Company G

Reverse Advertising Sites

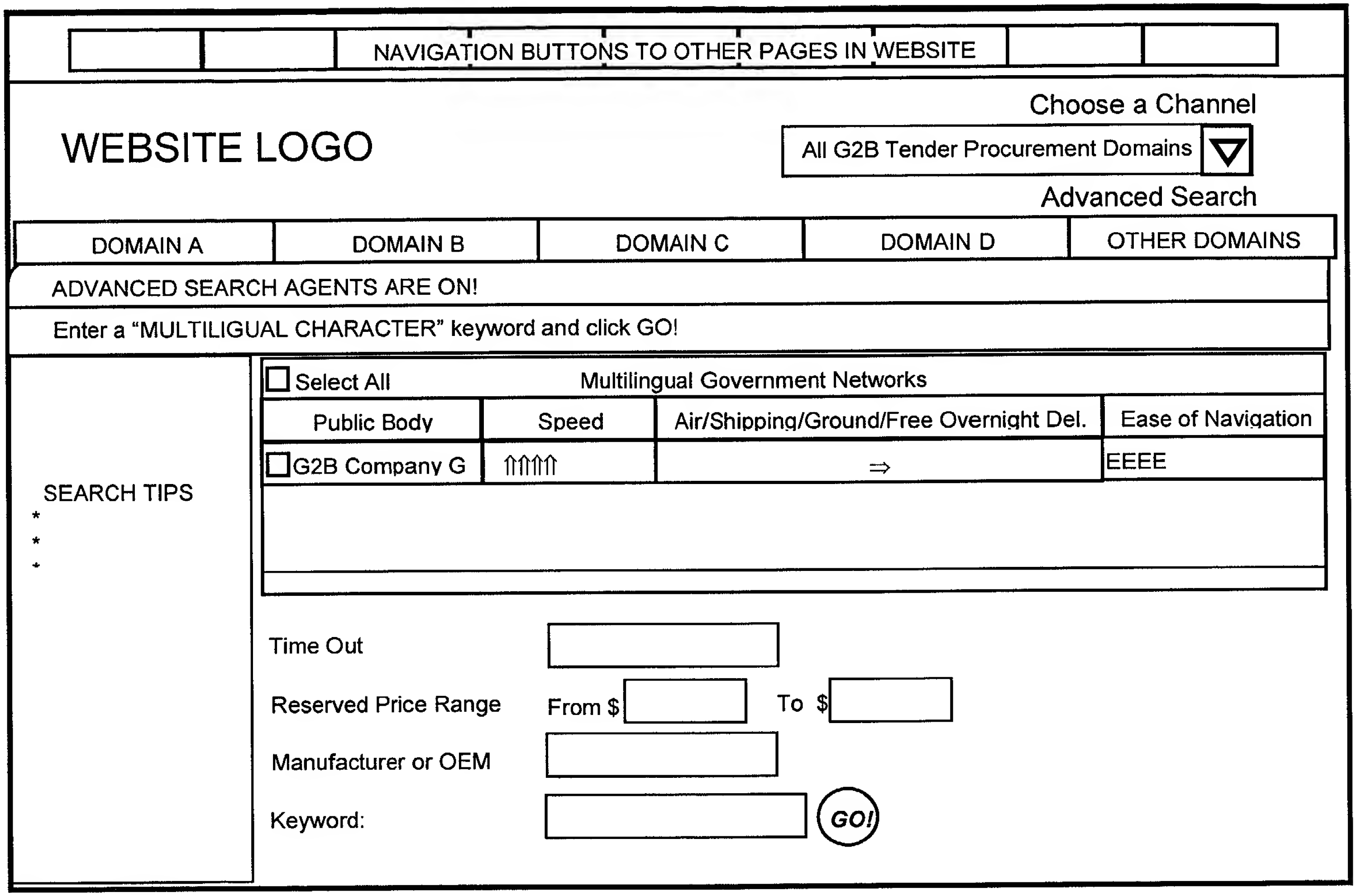
Registered Vendor Links

Abcd.com	cdef.com
1234z.com	23ezid..com
pkkw.com	er5lcin.com

Feedback

Submit!

FIGURE 33



ADVANCED SEARCH AGENTS ARE ON!

Enter a “MULTILIGUAL CHARACTER” keyword and click GO!

□ Select All Multilingual Government Networks

Public Body	Speed	Air/Shipping/Ground/Free Overnight Del.	Ease of Navigation
□G2B Company G	⇑⇑⇑⇑⇑	⇒	EEEE

Time Out

Reserved Price Range From $ To $

Manufacturer or OEM

Keyword:

FIGURE 34

new U.S. Appln. based on Appln. Nos. 60/236,574
& 60/299,360 for Online Intelligent Information...
Express Mail Label No. EL864389877US
Attorney Docket No.: 2102680-990101
Gray Cary et al. – GTS/415-836-2500
Applicants: Victor Hsieh Sheet 32 of 36

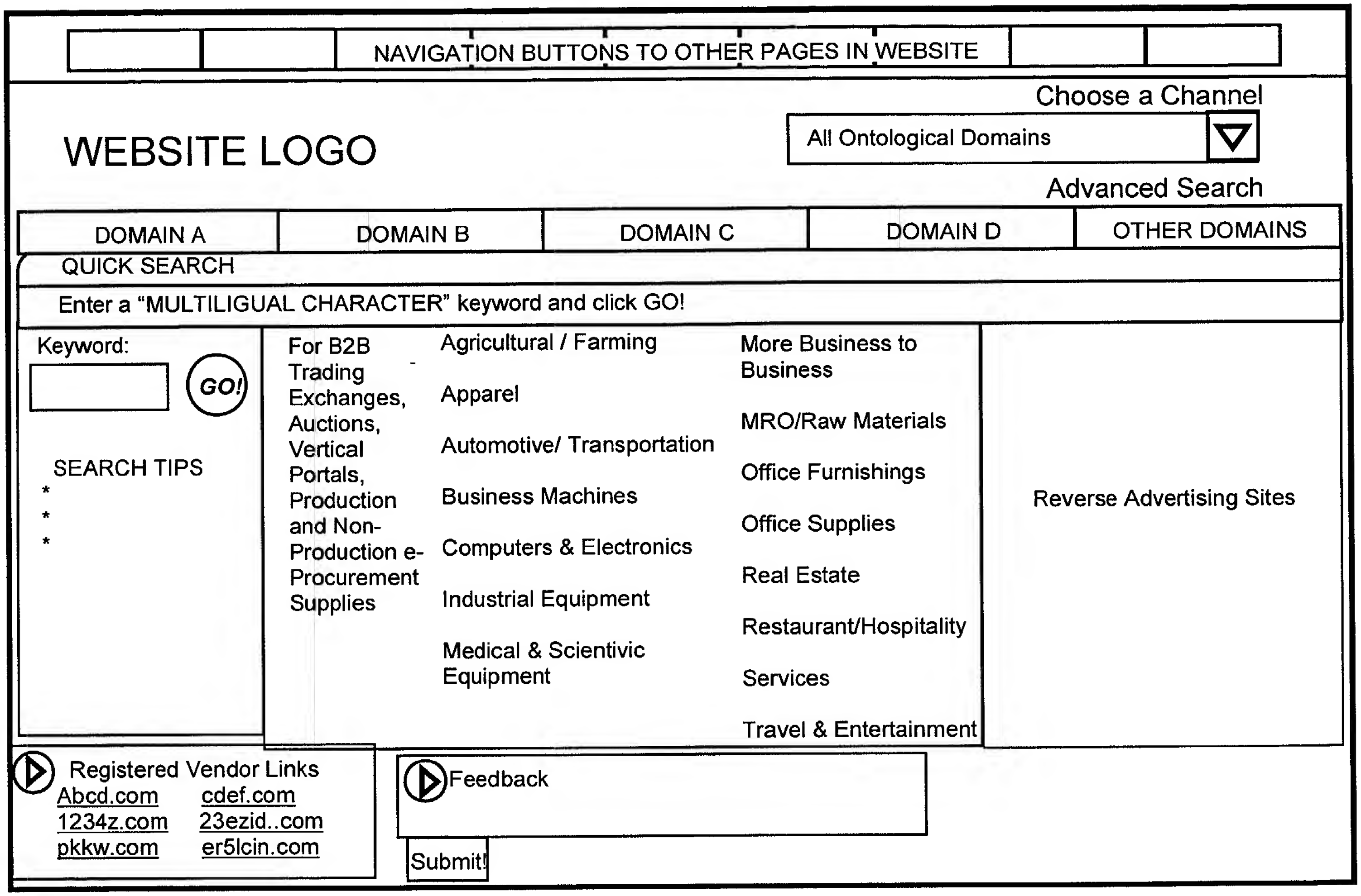
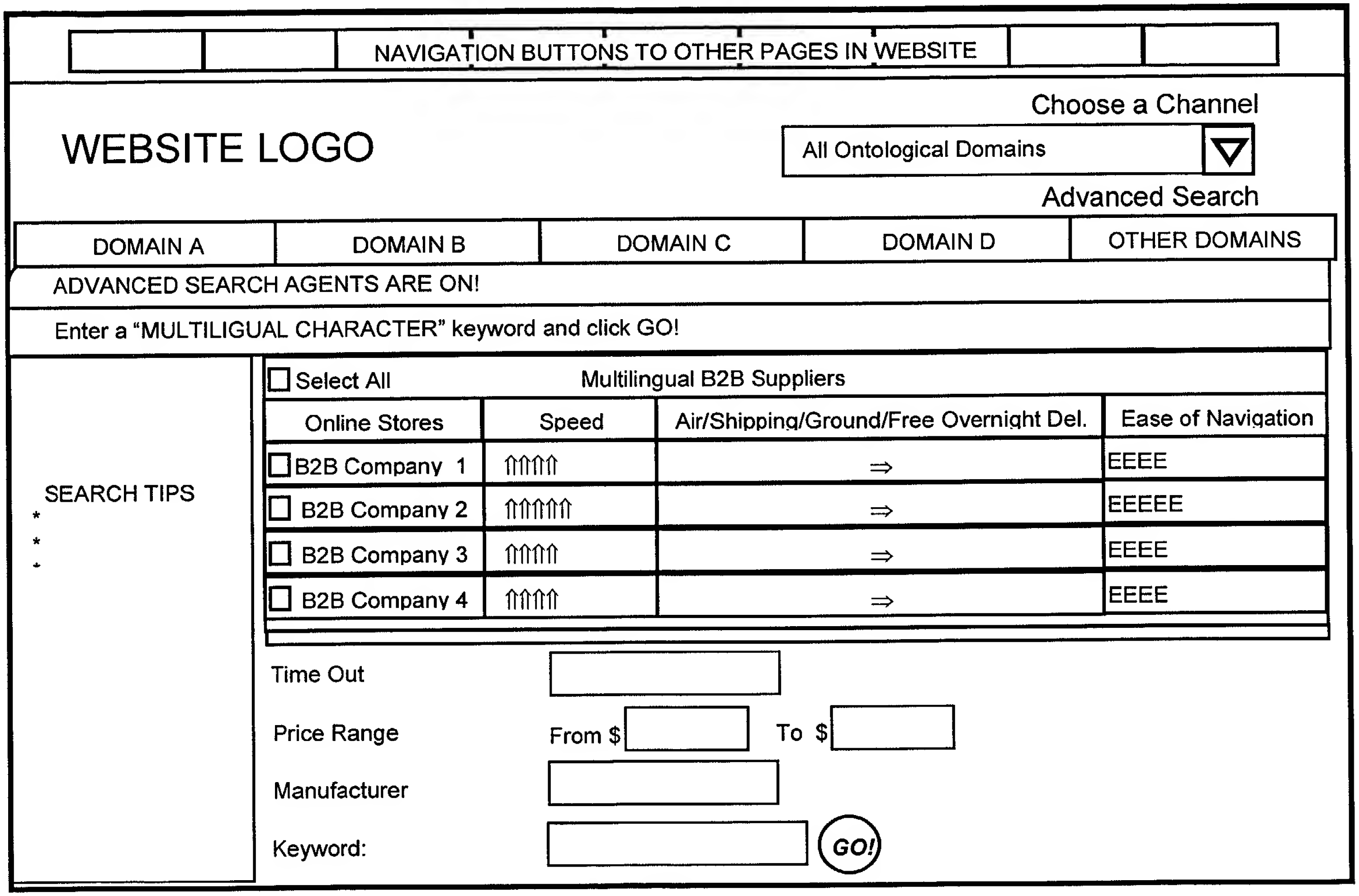


FIGURE 35



NAVIGATION BUTTONS TO OTHER PAGES IN WEBSITE

WEBSITE LOGO

Choose a Channel

All Ontological Domains ▽

Advanced Search

DOMAIN A | DOMAIN B | DOMAIN C | DOMAIN D | OTHER DOMAINS

ADVANCED SEARCH AGENTS ARE ON!

Enter a “MULTILIGUAL CHARACTER” keyword and click GO!

SEARCH TIPS

*

*

*

□ Select All Multilingual B2B Suppliers

Online Stores	Speed	Air/Shipping/Ground/Free Overnight Del.	Ease of Navigation
□ B2B Company 1	⇑⇑⇑⇑⇑	⇒	EEEE
□ B2B Company 2	⇑⇑⇑⇑⇑⇑	⇒	EEEEE
□ B2B Company 3	⇑⇑⇑⇑⇑	⇒	EEEE
□ B2B Company 4	⇑⇑⇑⇑⇑	⇒	EEEE

Time Out

Price Range From $ To $

Manufacturer

Keyword:

GO!

FIGURE 36

new U.S. Appln. based on Appln. Nos. 60/236,574
& 60/299,360 for Online Intelligent Information . .
Express Mail Label No. EL864389877US
Attorney Docket No.: 2102680-990101
Gray Cary et al. – GTS/415-836-2500
Applicants: Victor Hsieh Sheet 33 of 36

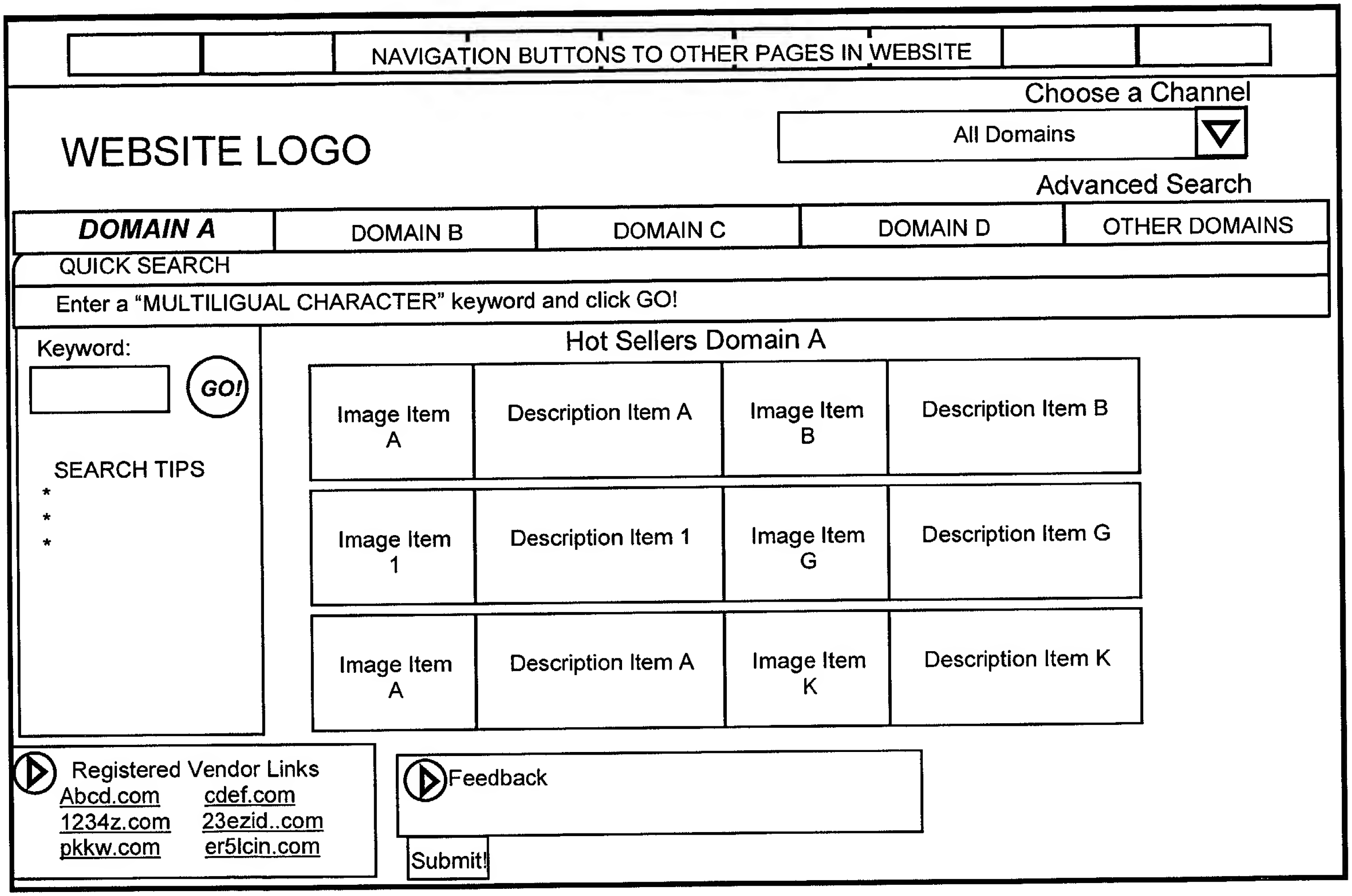
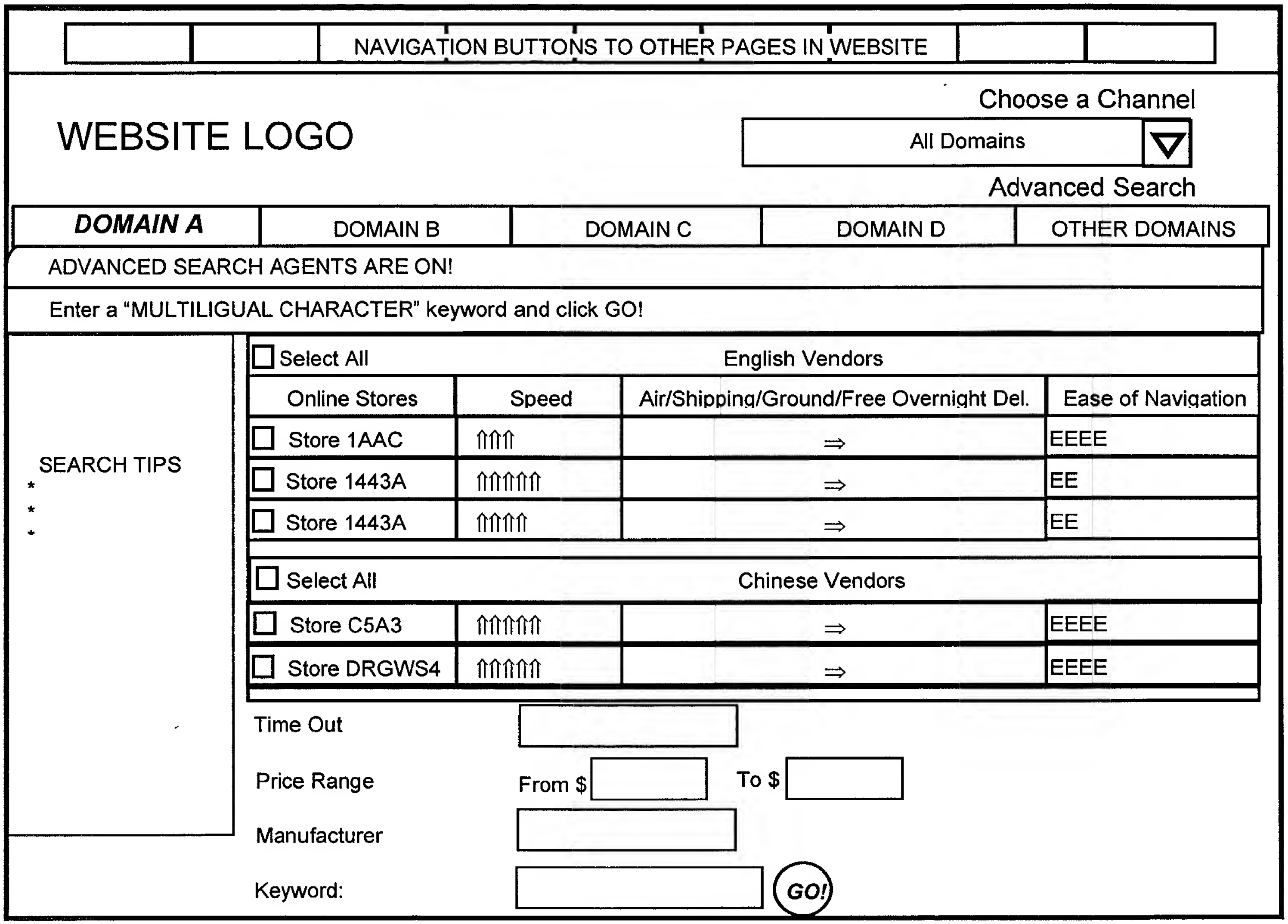

NAVIGATION BUTTONS TO OTHER PAGES IN WEBSITE
Choose a Channel
All Domains
WEBSITE LOGO
Advanced Search
DOMAIN A
DOMAIN B
DOMAIN C
DOMAIN D
OTHER DOMAINS
QUICK SEARCH
Enter a "MULTILIGUAL CHARACTER" keyword and click GO!
Keyword:
GO!
SEARCH TIPS
*
*
*
Hot Sellers Domain A
Image Item A
Description Item A
Image Item B
Description Item B
Image Item 1
Description Item 1
Image Item G
Description Item G
Image Item A
Description Item A
Image Item K
Description Item K
Registered Vendor Links
Abcd.com
cdef.com
1234z.com
23ezid..com
pkkw.com
er5lcin.com
Feedback
Submit!

FIGURE 37



NAVIGATION BUTTONS TO OTHER PAGES IN WEBSITE

WEBSITE LOGO

Choose a Channel

All Domains ▽

Advanced Search

DOMAIN A | DOMAIN B | DOMAIN C | DOMAIN D | OTHER DOMAINS

ADVANCED SEARCH AGENTS ARE ON!

Enter a "MULTILIGUAL CHARACTER" keyword and click GO!

SEARCH TIPS
*
*
*

□ Select All	English Vendors		
Online Stores	Speed	Air/Shipping/Ground/Free Overnight Del.	Ease of Navigation
□ Store 1AAC	⇑⇑⇑	⇒	EEEE
□ Store 1443A	⇑⇑⇑⇑⇑	⇒	EE
□ Store 1443A	⇑⇑⇑⇑	⇒	EE
□ Select All	Chinese Vendors		
□ Store C5A3	⇑⇑⇑⇑⇑	⇒	EEEE
□ Store DRGWS4	⇑⇑⇑⇑⇑	⇒	EEEE

Time Out

Price Range From $ To $

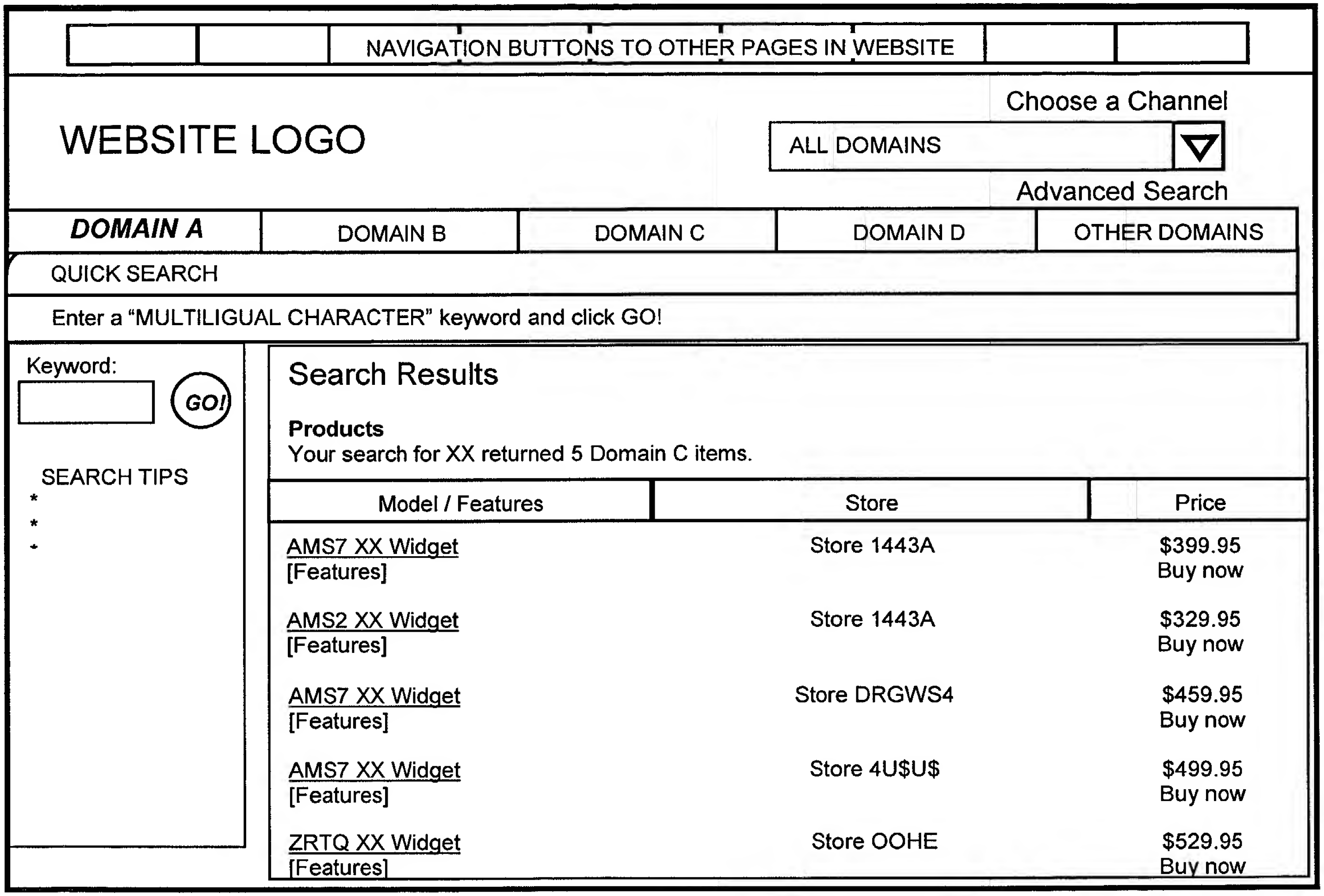
Manufacturer

Keyword:

GO!

FIGURE 38

new U.S. Appln. based on Appln. Nos. 60/236,574
& 60/299,360 for Online Intelligent Information...
Express Mail Label No EL864389877US
Attorney Docket No.: 2102680-990101
Gray Cary et al. – GTS/415-836-2500
Applicants: Victor Hsieh Sheet 35 of 36



Enter a “MULTILIGUAL CHARACTER” keyword and click GO!

Search Results

Products
Your search for XX returned 5 Domain C items.

Model / Features	Store	Price
AMS7 XX Widget [Features]	Store 1443A	$399.95 Buy now
AMS2 XX Widget [Features]	Store 1443A	$329.95 Buy now
AMS7 XX Widget [Features]	Store DRGWS4	$459.95 Buy now
AMS7 XX Widget [Features]	Store 4UU	$499.95 Buy now
ZRTQ XX Widget [Features]	Store OOHE	$529.95 Buy now

FIGURE 39